



King County

1200 King County
Courthouse
516 Third Avenue
Seattle, WA 98104

Meeting Agenda

King County Flood Control District

Boardmembers: Reagan Dunn, Chair; Dave Upthegrove, Vice Chair; Claudia Balducci, Rod Dembowski, Larry Gossett, Jeanne Kohl-Welles, Kathy Lambert, Joe McDermott, Pete von Reichbauer

1:30 PM

Monday, August 21, 2017

Room 1001

SPECIAL MEETING

1. Call to Order

To show a PDF of the written materials for an agenda item, click on the agenda item below.

2. Roll Call

3. Approval of Minutes of May 22, 2017

pgs 3-4

Discussion and Possible Action

4. FCD Resolution No. FCD2017-02

pgs 5-28

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; adopting a revised 2017 budget, district oversight budget, capital budget, six-year capital improvement program for 2017-2022; and amending Resolution FCD2016-20.3.

Public Hearing Required

5. FCD Resolution No. FCD2017-03

pgs 29-34

A RESOLUTION relating to the organization of the King County Flood Control Zone District; approving a fourth contract amendment for government relations services; and authorizing the chair to execute the amendment.

6. FCD Resolution No. FCD2017-04

pgs 35-68

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; authorizing the expenditure of District funds for projects and activities in Water Resource Inventory Areas 7 (Snoqualmie Watershed portion) 8, 9 and 10 (King County portion).



Sign language and communication material in alternate formats can be arranged given sufficient notice (296-1000).
TDD Number 296-1024.

ASSISTIVE LISTENING DEVICES AVAILABLE IN THE COUNCIL CHAMBERS.



7. FCD Resolution No. FCD2017-05 **pgs 69-77**

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; authorizing the expenditure of District funds for projects and activities in accordance with the Flood Reduction Grants.

8. **Adjournment**



King County

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Meeting Minutes

King County Flood Control District

*Boardmembers: Reagan Dunn, Chair; Dave Upthegrove, Vice
Chair; Claudia Balducci, Rod Dembowski,
Larry Gossett, Jeanne Kohl-Welles, Kathy Lambert, Joe
McDermott, Pete von Reichbauer*

1:30 PM

Monday, May 22, 2017

Room 1001

SPECIAL MEETING

-Draft Minutes-

1. **Call to Order**

The meeting was called to order at 3:38 p.m.

2. **Roll Call**

Present: 9 - Ms. Balducci, Mr. Dembowski, Mr. Dunn, Mr. Gossett, Ms. Kohl-Welles, Ms. Lambert, Mr. McDermott, Mr. Upthegrove and Mr. von Reichbauer

3. **Approval of Minutes of December 7, 2016**

Boardmember Upthegrove moved approval of the minutes of the December 7, 2016 meeting. Seeing no objection, the Chair so ordered.

Discussion and Possible Action

4. **FCD Motion No. FCD17-02**

A MOTION relating to the King County Flood Control Zone District's 2016 financial statements and adopting the King County Flood Control Zone District Financial Statements for the Year Ended December 31, 2016.

Michelle Clark, Executive Director, briefed the Boardmembers.

Boardmember Upthegrove moved Amendment 1. The motion carried.

A motion was made by Boardmember Upthegrove that this FCD Motion be Passed as Amended. The motion carried by the following vote:

Yes: 9 - Ms. Balducci, Mr. Dembowski, Mr. Dunn, Mr. Gossett, Ms. Kohl-Welles, Ms. Lambert, Mr. McDermott, Mr. Upthegrove and Mr. von Reichbauer

5. **Adjournment**

The meeting was adjourned at 3:42 p.m.

Approved this _____ day of _____.

Clerk's Signature



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

August 17, 2017

FCD Resolution

Proposed No. FCD2017-02.1

Sponsors

1 A RESOLUTION relating to the operations and finances of
2 the King County Flood Control Zone District; adopting a
3 revised 2017 budget, district oversight budget, capital
4 budget, six-year capital improvement program for 2017-
5 2022; and amending Resolution FCD2016-20.3.

6 WHEREAS, the King County Flood Control Zone District ("the District")
7 adopted its 2017 work program, budget, operating budget, capital budget, and six-year
8 capital improvement program in Resolution FCD2016-20.3, and

9 WHEREAS, an annual carry-forward budget resolution is necessary to provide
10 budget authority for unspent appropriations from the prior year and to reinstate contract
11 encumbrances, and

12 WHEREAS, the carry-forward amount for unspent appropriations from 2016 to
13 2017 is \$76,858,876, and

14 WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the
15 proposed carry-forward amount and a supplemental budget on _____, and

16 WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
17 has determined that the flood control improvements adopted by this resolution generally
18 contribute to the objectives of the District's comprehensive plan of development, and

19 WHEREAS, the Board desires to adopt amendments to the District's 2017 budget,

operating budget, capital budget, and six-year capital improvement program;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF
SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

SECTION 1. The Board adopts a revised 2017 budget for the District, as set forth
in Attachment B to this resolution, titled "2017 Reallocation Budget 7/11/17," and
amends Section 1 of FCD2016-20.3 accordingly.

SECTION 2. The Board adopts a revised 2017 operating budget for the District,
A set forth in Attachment C to this resolution, titled "2017 Reallocation Annual
Operating Budget 7/11/17," and amends Section 1 of FCD2016-20.3 accordingly.

SECTION 3. The Board adopts a revised 2017 capital budget for the District,
consisting of the projects and expenditures Attachment D to this resolution, titled "2017
Reallocation Capital Budget 7/11/17," and amends Section 1 of FCD2016-20.3
accordingly.

SECTION 4. The Board adopts a revised six-year capital improvement program
for the District, as set forth in Attachment E to this resolution, titled "2017 - 2022
Reallocation Six-Year CIP 7/11/17," and amends Section 1 of FCD2016-20.3
accordingly.

SECTION 5. The Board adopts a revised 2017-2022 capital budget project list, as
set forth in Attachment H to this resolution, titled "2017-2022 Reallocated Capital Budget
Project List 7/11/17," and amends Section 1 of FCD2016.20.3 accordingly.

SECTION 6. A. The Board authorizes the extension, enlargement, acquisition or
construction of improvements, as applicable, as set forth on Attachments B, C, D, E and
H of this resolution.

43 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as
44 amended, serves as the comprehensive plan of development for flood control and
45 floodplain management, and has been prepared for the streams or watercourses upon
46 which the improvements will be enlarged, extended, acquired or constructed. The
47 improvements authorized herein generally contribute to the objectives of the Flood Plan.

48 C. For improvements that are to be constructed, preliminary engineering studies
49 and plans have been made, consisting of one or more of the following: the 2006 Flood
50 Plan, as amended, preliminary feasibility analyses, conceptual designs and design
51 manuals, and such plans and studies are on file with the county engineer.

52 D. Estimated costs for acquisitions and improvements together with supporting
53 data are set forth on Attachments B, C, D, E and H.

54 E. The improvements set forth in Attachments B, C, D, E and H are determined
55 to benefit the county as a whole, as well as the zone.

56

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON

Reagan Dunn, Chair

ATTEST:

Melani Pedroza, Clerk of the Board

Attachments: B. 2017 reallocation, C. Operating reallocation, D. Capital reallocation, E. Summary of 6
year CIP, H. 6 year CIP projects reallocation

King County Flood Control District

2017 Reallocation Budget

Attachment B

7/11/17

Program	2017 Approved	2016 Carryover	2017 Reallocation	2017 Revised
Flood District Administration	692,090			692,090
Maintenance and Operation	10,912,177		247,200	11,159,377
Construction and Improvements	59,859,737	76,858,876	5,644,413	142,363,026
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	71,464,004	76,858,876	5,891,613	154,214,493
Projected Capital Reserves - Cash Fund Balance ¹	62,090,510			65,314,009
Projected Capital Reserves - Budgetary Fund Balance ²	(19,834,190)			(25,903,031)

¹ The cash fund balance assumes an expenditure rate of 36% of the capital budget in 2017, informed by prior year actuals.

² The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

King County Flood Control District

2017 Reallocated Annual Operating Budget

Attachment C

7/11/17

	2017 Approved	Reallocation	2017 Requested
Annual Maintenance	\$2,589,281	\$97,200	\$2,686,481
Flood Hazards Plan, Grants, Outreach	\$318,123		\$318,123
Flood Hazard Studies, Maps, Technical Services	\$1,304,619	\$150,000	\$1,454,619
Flood Preparation, Flood Warning Center	\$863,033		\$863,033
Program Management, Supervision, Finance, Budget	\$951,992		\$951,992
Program Implementation	\$1,165,633		\$1,165,633
Overhead / Central Costs	\$3,327,496		\$3,327,496
District Planning, Outreach, Policy Technical Services	\$392,000		\$392,000
Total	\$10,912,177	\$247,200	\$11,159,377

King County Flood Control District

2017 Reallocated Capital Budget

Attachment D

7/11/17

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$14,815,990	\$5,556,336	\$10,605,860	\$351,427	\$31,329,613
Cedar River Basin	\$9,037,385	\$2,563,819	\$5,395,644	\$0	\$16,996,847
Green River Basin	\$8,708,472	\$15,928,302	\$11,944,950	\$70,300	\$36,652,024
White River Basin	\$0	\$1,573,144	\$11,812,059	\$0	\$13,385,203
Seattle	\$0	\$0	\$5,214,392	\$0	\$5,214,392
Effectiveness Monitoring	\$0	\$601,785	\$0	\$0	\$601,785
Countywide Corridor Plan Implementation	\$0	\$0	\$42,783	\$99,827	\$142,610
Countywide Miscellaneous	\$0	\$0	\$0	\$630,192	\$630,192
Opportunity Fund	\$0	\$0	\$16,644,808	\$0	\$16,644,808
Grant Fund	\$0	\$0	\$9,014,771	\$0	\$9,014,771
WRIA Grant Funding	\$0	\$0	\$11,750,781	\$0	\$11,750,781
Total	\$32,561,847	\$26,223,385	\$82,426,048	\$1,151,746	\$142,363,026

King County Flood Control District

2017 - 2022 Reallocated Six-Year CIP

Attachment E

7/11/17

Name	2017 Adopted	2016 Carryover	2017 Reallocation	2017 Revised	2018	2019	2020	2021	2022	2017 - 2022 Total
Snoqualmie River Basin	14,290,160	17,675,974	(636,521)	31,329,613	14,646,352	20,450,785	9,653,617	12,558,534	3,929,407	92,568,308
Cedar River Basin	9,141,721	9,247,470	(1,392,344)	16,996,847	10,600,414	13,743,117	11,818,096	5,243,959	4,007,173	62,409,606
Green River Basin	13,733,899	19,137,382	3,780,743	36,652,024	13,776,463	33,956,412	6,386,989	5,889,650	3,358,500	100,020,038
White River Basin	5,607,473	4,085,195	3,692,535	13,385,203	1,536,321	6,722,036	6,571,371	115,927	200,000	28,530,858
Seattle Projects	3,810,756	1,403,636	-	5,214,392	1,504,244	1,000,000	1,005,000	-	-	8,723,636
Effectiveness Monitoring	357,399	244,386	-	601,785	895,779	332,985	533,242	219,566	634,010	3,217,367
Countywide Corridor Plan Implementation	-	142,610	-	142,610	2,489,775	2,452,537	11,213,074	9,430,286	2,010,077	27,738,359
Countywide Miscellaneous	(274,646)	704,838	200,000	630,192	316,225	325,202	334,437	343,940	353,717	2,303,713
Subregional Opportunity Fund	5,743,771	10,901,037	-	16,644,808	5,828,701	5,945,440	6,083,773	6,221,932	6,362,319	47,086,973
Grant Fund	3,058,908	5,955,863	-	9,014,771	3,133,710	3,196,473	3,270,846	3,345,125	3,420,602	25,381,527
WRIA Grant Funding	4,390,296	7,360,485	-	11,750,781	4,504,883	4,622,460	4,743,106	4,866,901	4,993,928	35,482,059
Total	59,859,737	76,858,876	5,644,413	\$142,363,026	59,232,867	92,747,447	61,613,552	48,235,820	29,269,732	433,462,444

King County Flood Control District

2017 - 2022 Six-Year CIP Project Allocations Reallocated
Attachment H

7/11/17

Flood Damage Repairs
Capital Investment Strategy Project

No.	Title	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total
1	WLFLO MILLER R RD RVTMNT 2016 REPAIR	Repair	N/A	WLR	\$50,000	\$1,409	\$710,799	\$48,591		\$759,390	\$0	\$0	\$0	\$0	\$0	\$759,390	\$760,799
2	WLFLO SKY W RVR DR FLOOD STUDY	63%	36%	WLR	\$81,237	\$2,475	\$0	\$78,762		\$78,762	\$0	\$0	\$0	\$0	\$0	\$78,762	\$81,237
3	WLFLO SF SKYKMSH REP LOSS MIT	74%	46%	Acqu/Elev	\$567,650	\$295,404	\$39,188	\$272,246	\$84,000	\$395,434	\$0	\$0	\$0	\$0	\$0	\$395,434	\$690,838
4	WLFLO SKYKOMISH HOME BUYOUTS	66%	44%	Acqu/Elev	\$380	\$380	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$400,380
5	WLFLO SKYKOMISH LB DOWN 2016 REPAIR	Repair	N/A	WLR	\$150,000	\$61,767	\$0	\$88,233		\$88,233	\$0	\$0	\$0	\$0	\$0	\$88,233	\$150,000
6	WLFLO SKYKOMISH LB UP 2016 REPAIR	Repair	N/A	WLR	\$260,845	\$7,658	\$0	\$253,187	\$48,588	\$301,775	\$0	\$0	\$0	\$0	\$0	\$301,775	\$309,433
7	WLFLO TIMBER LN EROSN BUYOUTS	76%	46%	Acqu/Elev	\$2,354,445	\$1,571,273	\$232,068	\$783,172		\$1,015,240	\$656,729	\$0	\$0	\$0	\$0	\$1,671,969	\$3,243,242
8	WLFLO TIMBERLANE 2016 REPAIR	Repair	N/A	WLR	\$52,500	\$11,040	\$0	\$41,460		\$41,460	\$0	\$0	\$0	\$0	\$0	\$41,460	\$52,500
9	WFL1 428TH AVE SE BR FEASIBILITY	FCD	FCD	WLR	\$300,000	\$168,614	\$0	\$131,386		\$131,386	\$0	\$0	\$0	\$0	\$0	\$131,386	\$300,000
10	WFL1 CIRCLE RVR RANCH RISK RED	N/A	N/A	WLR	\$150,000	\$64,225	\$0	\$85,775		\$85,775	\$0	\$0	\$0	\$0	\$0	\$85,775	\$150,000
11	WFL1 MASON THRSN EXT 2016 REPAIR	Repair	N/A	WLR	\$240,000	\$0	\$0	\$240,000		\$240,000	\$0	\$0	\$0	\$0	\$0	\$240,000	\$240,000
12	WFL1 MF SNO CORRIDOR IMP	76%	51%	WLR	\$1,100,000	\$954	\$0	\$1,099,046		\$1,099,046	\$508,830	\$391,776	\$1,244,138	\$3,325,350	\$0	\$6,569,140	\$6,570,094
13	WFL1 MF SNO CORRIDOR PLAN	76%	33%	WLR	\$1,824,912	\$1,310,605	\$0	\$514,307		\$514,307	\$0	\$0	\$0	\$0	\$0	\$514,307	\$1,824,912
14	WFL1 N BEND RESID FLD MITGTN	76%	61%	Acqu/Elev	\$1,555,476	\$1,555,278	(\$10,859)	\$198	\$10,661	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,555,278
15	WFL1 NORTH FORK BRIDGE 2016 REPAIR	Repair	N/A	WLR	\$385,000	\$111	\$0	\$384,889		\$384,889	\$0	\$0	\$0	\$0	\$0	\$384,889	\$385,000
16	WFL1 REIF RD 2016 REPAIR	Repair	N/A	WLR	\$50,000	\$0	\$179,950	\$50,000	\$23,050	\$253,000	\$0	\$0	\$0	\$0	\$0	\$253,000	\$253,000
17	WFL1 SHAKE MILL RB 2016 REPAIR	Repair	N/A	WLR	\$20,000	\$0	\$32,169	\$20,000	\$145,331	\$197,500	\$0	\$0	\$0	\$0	\$0	\$197,500	\$197,500
18	WFL1 SHAKE MILL LB 2016 REPAIR	Repair	N/A	WLR	\$100,000	\$0	\$700,000	\$100,000		\$800,000	\$0	\$0	\$0	\$0	\$0	\$800,000	\$800,000
19	WFL1 SF SNO CORR EARLY ACTION	95%	49%	WLR	\$3,562,744	\$1,373,089	\$2,000,000	\$2,189,655		\$4,189,655	\$2,433,511	\$8,098,380	\$150,000	\$0	\$0	\$14,871,546	\$16,244,635
20	WFL1 SF SNO CORRIDOR IMP	95%	49%	WLR	\$130,771	\$0	\$0	\$130,771		\$130,771	\$1,946,796	\$2,608,109	\$2,289,843	\$383,693	\$0	\$7,359,212	\$7,359,212
21	WFL1 SF SNO CORRIDOR PLAN	79%	49%	WLR	\$2,621,454	\$2,472,914	\$0	\$148,540	\$61,460	\$210,000	\$0	\$0	\$0	\$0	\$0	\$210,000	\$2,682,914
22	WFL1 SR202 SF BRIDGE LENGTHEN	76%	26%	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000
23	WFL1 UPPER SNOQ 2015 FLOOD REPAIR	Repair	N/A	WLR	\$700,000	\$5,673	\$0	\$694,327	\$765,673	\$1,460,000	\$302,981	\$0	\$0	\$0	\$0	\$1,762,981	\$1,768,654
24	WFL1 UPR SNO RES FLD MITGTN	89%	54%	Acqu/Elev	\$11,232,391	\$9,163,547	\$738,893	\$2,068,844		\$2,807,737	\$2,010,126	\$2,070,430	\$2,132,543	\$2,196,519	\$2,262,415	\$13,479,770	\$22,643,317
25	WFL2 DUTCHMAN RD REPAIR	Repair	N/A	WLR	\$0	\$0	\$209,914	\$0		\$209,914	\$355,136	\$0	\$0	\$0	\$0	\$565,050	\$565,050

No.	Title	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total
26	WFL2 FARM FLOOD TSK FORCE IMP	58%	79%	WLR	\$720,937	\$668,348	\$42,822	\$52,589		\$95,411	\$102,000	\$104,040	\$106,121	\$108,243	\$110,408	\$626,223	\$1,294,571
27	WFL2 L SNO REP LOSS MITGTION	74%	21%	Acqu/Elev	\$1,712,699	\$1,269,231	\$0	\$443,468		\$443,468	\$222,862	\$0	\$0	\$0	\$0	\$666,330	\$1,935,561
28	WFL2 L SNO/ALDAIR CORRDOR PLN	84%	97%	WLR	\$6,800,543	\$5,644,814	\$452,218	\$1,155,729		\$1,607,947	\$742,630	\$764,909	\$675,305	\$0	\$0	\$3,790,791	\$9,435,605
29	WFL2 LWR SNO RESDL FLD MITGTN	FCD	FCD	Acqu/Elev	\$2,630,971	\$1,927,117	\$675,305	\$703,854		\$1,379,159	\$716,431	\$760,062	\$775,263	\$790,769	\$806,584	\$5,228,268	\$7,155,384
30	WFL2 SE 19TH WAY REVETMENT	FCD	FCD	WLR	\$623,588	\$292,549	\$1,082,706	\$331,039		\$1,413,745	\$150,000	\$0	\$0	\$0	\$0	\$1,563,745	\$1,856,294
31	WFL2 SE DAVID POWELL RD DOWNSTREAM	FCD	FCD	WLR	\$1,000,000	\$149,535	\$36,456	\$850,465		\$886,921	\$0	\$0	\$0	\$0	\$0	\$886,921	\$1,036,456
32	WFL2 SE FISH HATCHERY RD	FCD	FCD	WLR	\$500,000	\$124,843	\$27,905	\$375,157		\$403,062	\$0	\$0	\$0	\$0	\$0	\$403,062	\$527,905
33	WFL2 DUVAL BRIDGE 1136A	FCD	FCD	WLR	\$0	\$0	\$30,000	\$0		\$30,000	\$120,000	\$0	\$0	\$0	\$0	\$150,000	\$150,000
34	WFL2 SE DAVID POWELL RD UPSTREAM	FCD	FCD	WLR	\$0	\$0	\$250,000	\$0		\$250,000	\$700,000	\$1,250,000	\$0	\$0	\$0	\$2,200,000	\$2,200,000
35	WFL2 SNOQUALMIE VALLEY FEASIBILITY	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$500,000	\$500,000
36	WFL2 WOODINVILLE DUVAL BR 1136B/1136E	FCD	FCD	WLR	\$0	\$0	\$100,000	\$0		\$100,000	\$300,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000
37	WFL2 SINNEMA QUALE 2011 REPR	100%	N/A	WLR	\$10,204,102	\$11,974,543	\$0	(\$1,770,441)	\$2,304,414	\$533,973	\$0	\$0	\$0	\$0	\$0	\$533,973	\$12,508,516
38	WFL2 TOLT PIPELINE PROTECTION	84%	49%	WLR	\$2,630,997	\$1,515,788	\$6,140,378	\$1,115,209	(\$5,500,000)	\$1,755,587	\$42,436	\$0	\$0	\$0	\$0	\$1,798,023	\$3,313,811
39	WFL3 FREW LEVEE 2016 REPAIR	Repair	N/A	WLR	\$50,000	\$0	\$100,000	\$50,000		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
40	WFL3 GIRL SCOUT LEVEE 2016 REPAIR	Repair	N/A	WLR	\$20,000	\$0	\$40,000	\$20,000		\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000
41	WFL3 HOLBERG FEASIBILITY	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000
42	WFL3 L FREW LEVEE SETBACK			WLR	\$0	\$0			\$175,000	\$175,000	\$1,000,000	\$2,425,000				\$3,600,000	\$3,600,000
43	WFL3 LOWER TOLT RIVER ACQUISITION			Acqu/Elev	\$744,475	\$529,475	\$0	\$215,000		\$215,000	\$0	\$0	\$0	\$0	\$0	\$215,000	\$744,475
44	WFL3 SAN SOUCI NBRHOOD BUYOUT	82%	79%	Acqu/Elev	\$4,949,206	\$4,127,691	\$604,147	\$821,515		\$1,425,662	\$0	\$0	\$0	\$0	\$0	\$1,425,662	\$5,553,353
45	WFL3 TOLT 2015 FLOOD REPAIRS	Repair	N/A	WLR	\$900,000	\$46,790	\$0	\$853,210		\$853,210	\$22,419	\$0	\$0	\$0	\$0	\$875,629	\$922,419
46	WFL3 TOLT CORRIDOR IMPLMNTN	87%	82%	WLR	\$25,252	\$0	\$75,000	\$25,252	(\$100,252)	\$0	\$679,867	\$635,353	\$1,717,650	\$5,037,804	\$0	\$8,070,674	\$8,070,674
47	WFL3 TOLT CORRIDOR PLAN	87%	82%	WLR	\$958,560	\$958,717	\$0	(\$157)	\$195,097	\$194,940	\$0	\$0	\$0	\$0	\$0	\$194,940	\$1,153,657
48	WFL3 TOLT R LEVEE L.O.S. ANALYSIS			WLR	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$300,000	\$250,000	\$0	\$0	\$0	\$700,000	\$700,000
49	WFL3 TOLT R MILE 1.1 SETBACK	84%	79%	Acqu/Elev	\$5,699,606	\$4,097,106	(\$215,246)	\$1,602,500		\$1,387,254	\$318,270	\$546,363	\$0	\$0	\$0	\$2,251,887	\$6,348,993
50	WFL3 TOLT R NATURAL AREA ACQ	66%	64%	Acqu/Elev	\$1,639,503	\$1,140,067	\$30,107	\$499,436	\$800,457	\$1,330,000	\$530,450	\$546,363	\$562,754	\$466,156	\$0	\$3,435,723	\$4,575,790
51	WFL3 TOLT R RD ELEVATION FEASIBILITY	FCD	FCD	WLR	\$250,000	\$0	\$0	\$250,000		\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000
52	WFL4 RAGING R BRIDGE 1008E	FCD	FCD	WLR	\$0	\$0	\$80,000	\$0		\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000
53	WFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	76%	79%	Acqu/Elev	\$2,374,412	\$1,715,652	(\$93,760)	\$658,760		\$565,000	\$484,878	\$0	\$0	\$0	\$0	\$1,049,878	\$2,765,530
54	Snoqualmie-South Fork Skykomish Subtotal				\$71,924,656	\$54,248,682	\$14,290,160	\$17,675,974	(\$636,521)	\$31,329,613	\$14,646,352	\$20,450,785	\$9,653,617	\$12,558,534	\$3,929,407	\$92,568,308	\$146,816,990

No.	Title	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total
55																	
56																	
57	WFL5 SAMMAMISH R BANK REPAIRS	Repair	N/A	WLR	\$400,000	\$106,050	\$19,895	\$293,950		\$313,845	\$0	\$0	\$0	\$0	\$0	\$313,845	\$419,895
58	WFL5 NE 8TH ST AT LAKE ALLEN OUTLET	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$400,000	\$1,400,000	\$1,000,000	\$2,800,000	\$2,800,000
59	WFL5 WILLOWMOOR FLDPLAIN REST	58%	8%	WLR	\$2,232,642	\$1,405,468	\$485,281	\$827,174		\$1,312,455	\$500,000	\$2,964,719	\$50,000	\$0	\$0	\$4,827,174	\$6,232,642
60	WFL6 LOWER COAL CRK PH I	71%	49%	Agreement	\$1,503,576	\$1,504,751	\$2,275,000	(\$1,175)	\$180,175	\$2,454,000	\$2,457,000	\$2,311,000	\$10,000	\$10,000	\$0	\$7,242,000	\$8,746,751
61	WFL6 MCALEER/LYON CHAN IMPRVM	79%	77%	Agreement	\$1,050,000	\$1,050,751	\$0	(\$751)	\$751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,050,751
62	WFL7 BELMONDO FEMA 1653 PH I	Repair	N/A	WLR	\$1,901,295	\$1,905,904	\$0	(\$4,609)	\$4,609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,905,904
63	WFL7 CDR PRE-CONST STRTGC ACQ	84%	69%	Acqu/Elev	\$2,830,814	\$2,532,848	\$1,499,718	\$297,966		\$1,797,684	\$1,529,712	\$1,560,306	\$1,591,512	\$1,623,342	\$1,655,809	\$9,758,365	\$12,291,213
64	WFL7 CEDAR CORRIDOR IMPLMNTN	76%	44%	WLR	\$16,763	\$0	\$328,437	\$16,763	(\$345,200)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	WFL7 MAPLEWOOD FEASIBILITY STUDY			WLR	\$0	\$0	\$0	\$0	\$440,000	\$440,000	\$0	\$0	\$0	\$0	\$0	\$440,000	\$440,000
66	WFL7 LOWER JONES ROAD NEIGHBORHOOD			WLR	\$0	\$0	\$0	\$0	\$36,000	\$36,000	\$3,057,792	\$1,738,873	\$4,569,548	\$1,544,801	\$40,575	\$10,987,589	\$10,987,589
67	WFL7 HERZMAN LEVEE SETBACK AND TRAIL			WLR	\$0	\$0	\$0	\$0		\$0	\$924,581	\$226,184	\$3,972,541	\$78,786	\$81,149	\$5,283,240	\$5,283,240
68	WFL7 JAN ROAD NEIGHBORHOOD			WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$200,000	\$350,000	\$350,000	\$900,000	\$900,000
69	WFL7 LOWER CEDAR FEASIBILITY STUDY			WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$200,000	\$200,000	\$100,000	\$0	\$500,000	\$500,000
70	WFL7 CEDAR RIVER TRAIL SITE 2A BANK			WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$10,000	\$40,000	\$50,000	\$790,000	\$890,000	\$890,000
71	WFL7 CITY OF RENTON LEVEE CERTIFICATION			Agreement	\$0	\$0	\$0	\$0		\$0	\$750,000	\$4,250,000	\$0	\$0	\$0	\$5,000,000	\$5,000,000
72	WFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	84%	69%	WLR	\$1,987,587	\$1,624,424	\$0	\$363,163		\$363,163	\$0	\$0	\$0	\$0	\$0	\$363,163	\$1,987,587
73	WFL7 CEDAR R REP LOSS MITGATN	74%	8%	Acqu/Elev	\$3,788,422	\$3,182,250	\$58,679	\$606,172	(\$58,679)	\$606,172	\$0	\$0	\$0	\$0	\$0	\$606,172	\$3,788,422
74	WFL7 CEDAR RVR GRAVEL REMOVAL	89%	59%	Agreement	\$11,728,768	\$8,480,221	\$774,117	\$3,248,547	(\$1,400,000)	\$2,622,664	\$325,046	\$82,035	\$84,495	\$87,030	\$89,640	\$3,290,910	\$11,771,131
75	WFL7 ELLIOTT BR LEVEE SETBACK	79%	56%	WLR	\$2,425,408	\$2,168,073	\$0	\$257,335	(\$250,000)	\$7,335	\$0	\$0	\$0	\$0	\$0	\$7,335	\$2,175,408
76	WFL7 FBD CORRIDOR IMPLEMENTATION	84%	69%	Acqu/Elev	\$2,150,000	\$932,547	\$3,555,500	\$1,217,453		\$4,772,953	\$806,284	\$0	\$0	\$0	\$0	\$5,579,237	\$6,511,784
77	WFL7 SE 162ND AVE AT 266TH CT	FCD	FCD	WLR	\$0	\$0	\$150,000	\$0		\$150,000	\$250,000	\$400,000	\$700,000	\$0	\$0	\$1,500,000	\$1,500,000
78	WFL7 SR 169 FEASIBILITY STUDY	FCD	FCD	WLR	\$0	\$0	\$260,000	\$0		\$260,000	\$0	\$0	\$0	\$0	\$0	\$260,000	\$260,000
79	WFL7 RAINBOW BEND LEVEE STBCK	76%	79%	WLR	\$2,369,091	\$2,104,185	(\$264,906)	\$264,906		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,104,185
80	WFL7 RIVERBEND MHP ACQ	82%	46%	WLR	\$5,357,042	\$3,496,466	\$0	\$1,860,576		\$1,860,576	\$0	\$0	\$0	\$0	\$0	\$1,860,576	\$5,357,042

No.	Title	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total
81	Cedar-Sammamish Subtotal				\$39,741,408	\$30,493,938	\$9,141,721	\$9,247,470	(\$1,392,344)	\$16,996,847	\$10,600,414	\$13,743,117	\$11,818,096	\$5,243,959	\$4,007,173	\$62,409,606	\$92,903,544
82																	
83																	
84	WFL8 BRISCOE LEVEE SETBACK	82%	36%	Agreement	\$23,330,271	\$21,361,073	\$0	\$1,969,198		\$1,969,198	\$0	\$0	\$0	\$0	\$0	\$1,969,198	\$23,330,271
85	WFL8 BRPS BLACK R PUMP STATION	100%	72%	WLR	\$5,374,203	\$5,134,042	\$0	\$240,161		\$240,161	\$36,060	\$0	\$0	\$0	\$0	\$276,221	\$5,410,263
86	WFL8 BRPS CONTROL BLDG RPLCMT	100%	72%	WLR	\$0	\$0	\$50,000	\$0		\$50,000	\$1,672,200	\$6,982,700	\$0	\$0	\$0	\$8,704,900	\$8,704,900
87	WFL8 BRPS FISH PASS IMPRVMTS	100%	72%	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$10,000	\$25,000	\$692,000	\$1,863,500	\$2,590,500	\$2,590,500
88	WFL8 BRPS HIGH-USE ENGINES	100%	72%	WLR	\$0	\$0	\$252,900	\$0		\$252,900	\$1,292,500	\$0	\$0	\$0	\$0	\$1,545,400	\$1,545,400
89	WFL8 BRPS SUPPORT SYS UPGRADES	100%	72%	WLR	\$0	\$0	\$0	\$0		\$0	\$50,000	\$147,200	\$646,400	\$597,650	\$0	\$1,441,250	\$1,441,250
90	WFL8 PATTON BRIDGE 3015	FCD	FCD	WLR	\$0	\$0	\$150,000	\$0		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
91	WFL8 SE 380 PL AT SR 164	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$90,000	\$100,000	\$400,000	\$100,000	\$0	\$690,000	\$690,000
92	WFL8 SE 384 ST @ 176 AVE SE	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000
93	WFL8 DESIMONE USACE 2015	100%	N/A	Agreement	\$2,500,000	\$1,634,698	\$63,620	\$865,302		\$928,922	\$0	\$0	\$0	\$0	\$0	\$928,922	\$2,563,620
94	WFL8 DYKSTRA USACE 2015	100%	N/A	Agreement	\$1,685,097	\$638,356	(\$1,295,068)	\$1,046,741	\$302,827	\$54,500	\$1,768	\$0	\$0	\$0	\$0	\$56,268	\$694,624
95	WFL8 GREEN R PL84-99 MITIGATN	89%	72%	WLR	\$4,062,558	\$3,668,478	\$981,430	\$394,080	(\$1,000,000)	\$375,510	\$500,000	\$0	\$0	\$0	\$0	\$875,510	\$4,543,988
96	WFL8 HSB BREDA SETBACK	95%	41%	WLR	\$2,595,720	\$107,999	\$1,755,000	\$2,487,721		\$4,242,721	\$550,000	\$3,290,000	\$21,500	\$0	\$0	\$8,104,221	\$8,212,220
97	WFL8 HSB MCCOY REALIGNMENT	FCD	FCD	WLR	\$0	\$0	\$400,000	\$0		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000
98	WFL8 HSB NURSING HOME SETBACK	FCD	FCD	WLR	\$38,806	\$0	(\$38,806)	\$38,806		\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$200,000
99	WFL8 INTERIM SWIF IMPLEMENTATION	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000
100	WFL8 LOWER RUSSELL ACQ KENT	FCD	FCD	Agreement	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000
101	WFL8 LWR RUSSELL LEVEE SETBACK	76%	56%	WLR	\$7,020,860	\$6,041,888	\$5,056,270	\$978,972		\$6,035,242	\$6,833,935	\$22,126,512	\$4,644,089	\$0	\$0	\$39,639,778	\$45,681,666
102	WFL8 MILWAUKEE LEVEE #2-KENT	FCD	FCD	Agreement	\$8,500,000	\$10,768	\$0	\$8,489,232		\$8,489,232	\$0	\$0	\$0	\$0	\$0	\$8,489,232	\$8,500,000
103	WFL8 PORTER LEVEE	39%	41%	WLR	\$300,000	\$0	\$420,000	\$300,000		\$720,000	\$0	\$0	\$0	\$0	\$0	\$720,000	\$720,000
104	WFL8 REDDINGTON REACH SETBACK	68%	62%	WLR	\$16,889,083	\$16,564,851	\$0	\$324,232		\$324,232	\$0	\$0	\$0	\$0	\$0	\$324,232	\$16,889,083
105	WFL8 RUSSELL RD UPPER KENT	92%	72%	Agreement	\$5,987,228	\$6,020,673	\$0	(\$33,445)	\$84,945	\$51,500	\$0	\$0	\$0	\$0	\$0	\$51,500	\$6,072,173
106	WFL8 SIGNATURE POINTE REVETMENT	FCD	FCD	WLR	\$0	\$0	\$300,000	\$0		\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000
107	WFL8 S 180TH ST BRIDGE FLOODWALL EXT	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$65,378	\$65,378	\$0	\$0	\$0	\$0	\$0	\$65,378	\$65,378
108	WFL8 S 277TH ST REVETMENT	FCD	FCD	WLR	\$300,000	\$90,528	\$0	\$209,472		\$209,472	\$0	\$0	\$0	\$0	\$0	\$209,472	\$300,000
109	WFL8 TUK-205 USACE GACO REPAIR	R	N/A	WLR	\$50,000	\$44,246	\$80,440	\$5,754	\$8,933,613	\$9,019,807	\$0	\$0	\$0	\$0	\$0	\$9,019,807	\$9,064,053
110	WFL8 TUK-205 RATOLO FLOODWALL	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$1,100,000	\$1,100,000	\$1,100,000
111	WFL8 TUK-205 SEGAL FLOODWALL	FCD	FCD	WLR	\$0	\$0	\$5,640,000	\$0	(\$5,640,000)	\$0	\$2,750,000	\$1,300,000	\$650,000	\$4,500,000	\$45,000	\$9,245,000	\$9,245,000

No.	Title	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total
112	WLFL8 USACE SWIF	FCD	FCD	WLR	\$2,287,724	\$2,209,817	(\$81,887)	\$77,907	\$3,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,209,817
113	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	FCD	FCD	WLR	\$1,743,249	\$0	\$0	\$1,743,249		\$1,743,249	\$0	\$0	\$0	\$0	\$0	\$1,743,249	\$1,743,249
114	Green-Duwamish Subtotal				\$82,664,799	\$63,527,418	\$13,733,899	\$19,137,382	\$3,780,743	\$36,652,024	\$13,776,463	\$33,956,412	\$6,386,989	\$5,889,650	\$3,358,500	\$100,020,038	\$163,547,456
115																	
116																	
117	WLFL9 BUTTE AVE FLOOD MITIGATION	FCD	FCD	Agreement	\$0	\$0	\$0	\$0	\$470,000	\$470,000	\$0	\$0	\$0	\$0	\$0	\$470,000	\$470,000
118	WLFL9 COUNTYLINE TO A STREET	87%	74%	WLR	\$15,569,196	\$12,662,360	\$5,212,688	\$2,906,836	\$3,222,535	\$11,342,059	\$0	\$0	\$0	\$0	\$0	\$11,342,059	\$24,004,419
119	WLFL9 RED CREEK ACQUISITIONS	71%	41%	Acqu/Elev	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000
120	WLFL9 RIGHT BANK LEVEE SETBACK	79%	64%	WLR	\$11,381,414	\$10,578,055	\$769,785	\$803,359		\$1,573,144	\$1,536,321	\$6,722,036	\$6,571,371	\$115,927	\$0	\$16,518,799	\$27,096,854
121	WLFL9 WHITE - GREENWATER ACQ	66%	44%	Acqu/Elev	\$375,000	\$0	(\$375,000)	\$375,000		\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000
122	White Subtotal				\$27,325,610	\$23,240,415	\$5,607,473	\$4,085,195	\$3,692,535	\$13,385,203	\$1,536,321	\$6,722,036	\$6,571,371	\$115,927	\$200,000	\$28,530,858	\$51,771,273
123																	
124																	
125	WLFLS SOUTH PARK PUMPSTATION	79%	64%	Agreement	\$2,690,575	\$1,786,219	\$3,310,756	\$904,356		\$4,215,112	\$504,244	\$0	\$0	\$0	\$0	\$4,719,356	\$6,505,575
126	WLFLS S PARK DRAINAGE IMPROVEMENTS	FCD	FCD	Agreement	\$500,000	\$720	\$500,000	\$499,280		\$999,280	\$1,000,000	\$1,000,000	\$1,005,000	\$0	\$0	\$4,004,280	\$4,005,000
127	Seattle Subtotal				\$3,190,575	\$1,786,939	\$3,810,756	\$1,403,636	\$0	\$5,214,392	\$1,504,244	\$1,000,000	\$1,005,000	\$0	\$0	\$8,723,636	\$10,510,575
128																	
129																	
130	WLFLX CORRIDOR PLN DESIGN/CONST PLACEHOLDER	N/A	N/A	WLR	\$142,610	\$0	\$0	\$142,610		\$142,610	\$2,489,775	\$2,452,537	\$11,213,074	\$9,430,286	\$2,010,077	\$27,738,359	\$27,738,359
131	Countywide Corridor Plan Imp Subtotal				\$142,610	\$0	\$0	\$142,610	\$0	\$142,610	\$2,489,775	\$2,452,537	\$11,213,074	\$9,430,286	\$2,010,077	\$27,738,359	\$27,738,359
132																	
133																	
134	WLFLG FLOOD REDUCTION GRANTS	FCD	FCD	Grant	\$8,541,782	\$2,585,919	\$3,058,908	\$5,955,863		\$9,014,771	\$3,133,710	\$3,196,473	\$3,270,846	\$3,345,125	\$3,420,602	\$25,381,527	\$27,967,446
135	WLFLM EFFECTIVENESS MONITORING	N/A	N/A	WLR	\$1,861,120	\$1,616,734	\$357,399	\$244,386		\$601,785	\$895,779	\$332,985	\$533,242	\$219,566	\$634,010	\$3,217,367	\$4,834,101
136	WLFL0 SUBREGNL OPPRTNTY FUND	FCD	FCD	Grant	\$37,939,497	\$27,038,460	\$5,743,771	\$10,901,037		\$16,644,808	\$5,828,701	\$5,945,440	\$6,083,773	\$6,221,932	\$6,362,319	\$47,086,973	\$74,125,433
137	WLFLX CENTRAL CHARGES	N/A	N/A	WLR	\$866,053	\$652,217	(\$284,560)	\$213,836	\$200,000	\$129,276	\$51,000	\$52,020	\$53,060	\$54,122	\$55,204	\$394,682	\$1,046,899
138	WLFLX FLOOD EMERGENCY CONTNGCY	N/A	N/A	WLR	\$791,003	\$300,001	\$9,914	\$491,002		\$500,916	\$265,225	\$273,182	\$281,377	\$289,818	\$298,513	\$1,909,031	\$2,209,032
139	WLFLX WRIA GRANTS	FCD	FCD	Grant	\$18,708,959	\$11,348,474	\$4,390,296	\$7,360,485		\$11,750,781	\$4,504,883	\$4,622,460	\$4,743,106	\$4,866,901	\$4,993,928	\$35,482,059	\$46,830,534
140	Countywide Subtotal				\$68,708,414	\$43,541,805	\$13,275,728	\$25,166,609	\$200,000	\$38,642,337	\$14,679,298	\$14,422,560	\$14,965,405	\$14,997,464	\$15,764,576	\$113,471,639	\$157,013,445
141																	
142	Grand Total				\$293,698,072	\$216,839,197	\$59,859,737	\$76,858,876	\$5,644,413	\$142,363,026	\$59,232,867	\$92,747,447	\$61,613,552	\$48,235,820	\$29,269,732	\$433,462,444	\$650,301,641

8/21/2017

S1

MC/bar

Sponsor: _____

Proposed No.: FCD2017-02

1 **STRIKING AMENDMENT TO PROPOSED RESOLUTION FCD RESOLUTION**
2 **2017-02, VERSION 1**

3 On page 1, beginning on line 6, strike everything through page 3, line55, and insert:

4 "WHEREAS, the King County Flood Control Zone District ("the district")
5 adopted its 2017 work program, budget, operating budget, capital budget, and six-year
6 capital improvement program in Resolution FCD2016-20.3, and

7 WHEREAS, an annual carry-forward budget resolution is necessary to provide
8 budget authority for unspent appropriations from the prior year and to reinstate contract
9 encumbrances, and

10 WHEREAS, the carry-forward amount for unspent appropriations from 2016 to
11 2017 is \$76,858,876, and

12 WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the
13 proposed carry-forward amount and a supplemental budget on August 21, 2017, and

14 WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
15 has determined that the flood control improvements adopted by this resolution generally
16 contribute to the objectives of the District's comprehensive plan of development, and

17 WHEREAS, the Board desires to adopt amendments to the District's 2017 budget,
18 operating budget, capital budget, and six-year capital improvement program;

19 NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF
20 SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

21 SECTION 1. The Board adopts a revised 2017 budget for the District, as set forth
22 in Attachment B to this resolution, titled "2017 Reallocation Budget 8/14/17," and
23 amends Section 1 of FCD2016-20.3 accordingly.

24 SECTION 2. The Board adopts a revised 2017 operating budget for the District,
25 A set forth in Attachment C to this resolution, titled "2017 Reallocation Annual
26 Operating Budget 8/14/17," and amends Section 1 of FCD2016-20.3 accordingly.

27 SECTION 3. The Board adopts a revised 2017 capital budget for the District,
28 consisting of the projects and expenditures Attachment D to this resolution, titled "2017
29 Reallocation Capital Budget 8/14/17," and amends Section 1 of FCD2016-20.3
30 accordingly.

31 SECTION 4. The Board adopts a revised six-year capital improvement program
32 for the District, as set forth in Attachment E to this resolution, titled "2017-2022
33 Reallocation Six-Year CIP 8/14/17," and amends Section 1 of FCD2016-20.3
34 accordingly.

35 SECTION 5. The Board adopts a revised 2017-2022 capital budget project list, as
36 set forth in Attachment H to this resolution, titled "2017-2022 Reallocated Capital Budget
37 Project List 8/14/17," and amends Section 1 of FCD2016.20.3 accordingly.

38 SECTION 6. A. The Board authorizes the extension, enlargement, acquisition or
39 construction of improvements, as applicable, as set forth on Attachments B, C, D, E and
40 H of this resolution.

41 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as

amended, serves as the comprehensive plan of development for flood control and floodplain management, and has been prepared for the streams or watercourses upon which the improvements will be enlarged, extended, acquired or constructed. The improvements authorized herein generally contribute to the objectives of the Flood Plan.

C. For improvements that are to be constructed, preliminary engineering studies and plans have been made, consisting of one or more of the following: the 2006 Flood Plan, as amended, preliminary feasibility analyses, conceptual designs and design manuals, and such plans and studies are on file with the county engineer.

D. Estimated costs for acquisitions and improvements together with supporting data are set forth on Attachments B, C, D, E and H.

E. The improvements set forth in Attachments B, C, D, E and H are determined to benefit the county as a whole, as well as the zone."

Delete Attachment B, 2017 Reallocation Budget 7/11/17, and insert 2017 Reallocation Budget 8/21/2017

Delete Attachment C, 2017 Reallocation Annual Operating Budget 7/11/17, and insert Attachment C, 2017 Reallocation Annual Operating Budget 8/21/2017

Delete Attachment D, 2017 Reallocation Capital Budget 7/11/17, and insert Attachment D, 2017 Reallocation Capital Budget 8/21/2017

Delete Attachment E, 2017 - 2022 Reallocation Six-Year CIP 7/11/17, and insert Attachment E, 2017 - 2022 Reallocation Six-Year CIP 8/21/2017

Delete Attachment H, 2017-2022 Reallocated Capital Budget Project List 7/11/17, and insert Attachment H, 2017-2022 Reallocated Capital Budget Project List 8/21/2017

King County Flood Control District

2017 Reallocation Budget

Attachment B

8/14/2017

Program	2017 Approved	2016 Carryover	2017 Reallocation	2017 Revised
Flood District Administration	692,090			692,090
Maintenance and Operation	10,912,177		247,200	11,159,377
Construction and Improvements	59,859,737	76,858,876	5,753,513	142,472,126
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	71,464,004	76,858,876	6,000,713	154,323,593
Projected Capital Reserves - Cash Fund Balance ¹	62,090,510			60,731,444
Projected Capital Reserves - Budgetary Fund Balance ²	(19,834,190)			(30,551,056)

¹ The cash fund balance assumes an expenditure rate of 36% of the capital budget in 2017, informed by prior year actuals.

² The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

King County Flood Control District

2017 Reallocated Annual Operating Budget

Attachment C

8/14/2017

	2017 Approved	Reallocation	2017 Requested
Annual Maintenance	\$2,589,281	\$97,200	\$2,686,481
Flood Hazards Plan, Grants, Outreach	\$318,123		\$318,123
Flood Hazard Studies, Maps, Technical Services	\$1,304,619	\$150,000	\$1,454,619
Flood Preparation, Flood Warning Center	\$863,033		\$863,033
Program Management, Supervision, Finance, Budget	\$951,992		\$951,992
Program Implementation	\$1,165,633		\$1,165,633
Overhead / Central Costs	\$3,327,496		\$3,327,496
District Planning, Outreach, Policy Technical Services	\$392,000		\$392,000
Total	\$10,912,177	\$247,200	\$11,159,377

King County Flood Control District

2017 Reallocated Capital Budget

Attachment D

8/14/2017

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$14,815,990	\$5,556,336	\$10,605,860	\$351,427	\$31,329,613
Cedar River Basin	\$9,037,385	\$2,563,819	\$5,504,744	\$0	\$17,105,947
Green River Basin	\$8,708,472	\$15,928,302	\$11,944,950	\$70,300	\$36,652,024
White River Basin	\$0	\$1,573,144	\$11,812,059	\$0	\$13,385,203
Seattle	\$0	\$0	\$5,214,392	\$0	\$5,214,392
Effectiveness Monitoring	\$0	\$601,785	\$0	\$0	\$601,785
Countywide Corridor Plan Implementation	\$0	\$0	\$42,783	\$99,827	\$142,610
Countywide Miscellaneous	\$0	\$0	\$0	\$630,192	\$630,192
Opportunity Fund	\$0	\$0	\$16,644,808	\$0	\$16,644,808
Grant Fund	\$0	\$0	\$9,014,771	\$0	\$9,014,771
WRIA Grant Funding	\$0	\$0	\$11,750,781	\$0	\$11,750,781
Total	\$32,561,847	\$26,223,385	\$82,535,148	\$1,151,746	\$142,472,126

King County Flood Control District

2017 - 2022 Reallocated Six-Year CIP

Attachment E

8/14/2017

Name	2017 Adopted	2016 Carryover	2017 Reallocation	2017 Revised	2018	2019	2020	2021	2022	2017 - 2022 Total
Snoqualmie River Basin	14,290,160	17,675,974	(636,521)	31,329,613	14,646,352	20,450,785	9,653,617	12,558,534	3,929,407	92,568,308
Cedar River Basin	9,141,721	9,247,470	(1,283,244)	17,105,947	10,600,414	13,743,117	11,818,096	5,243,959	4,007,173	62,518,706
Green River Basin	13,733,899	19,137,382	3,780,743	36,652,024	13,776,463	33,956,412	6,386,989	5,889,650	3,358,500	100,020,038
White River Basin	5,607,473	4,085,195	3,692,535	13,385,203	1,536,321	6,722,036	6,571,371	115,927	200,000	28,530,858
Seattle Projects	3,810,756	1,403,636	-	5,214,392	1,504,244	1,000,000	1,005,000	-	-	8,723,636
Effectiveness Monitoring	357,399	244,386	-	601,785	895,779	332,985	533,242	219,566	634,010	3,217,367
Countywide Corridor Plan Implementation	-	142,610	-	142,610	2,489,775	2,452,537	11,213,074	9,430,286	2,010,077	27,738,359
Countywide Miscellaneous	(274,646)	704,838	200,000	630,192	316,225	325,202	334,437	343,940	353,717	2,303,713
Subregional Opportunity Fund	5,743,771	10,901,037	-	16,644,808	5,828,701	5,945,440	6,083,773	6,221,932	6,362,319	47,086,973
Grant Fund	3,058,908	5,955,863	-	9,014,771	3,133,710	3,196,473	3,270,846	3,345,125	3,420,602	25,381,527
WRIA Grant Funding	4,390,296	7,360,485	-	11,750,781	4,504,883	4,622,460	4,743,106	4,866,901	4,993,928	35,482,059
Total	59,859,737	76,858,876	5,753,513	\$142,472,126	59,232,867	92,747,447	61,613,552	48,235,820	29,269,732	433,571,544

King County Flood Control District

2017 - 2022 Six-Year CIP Project Allocations Reallocated
Attachment H

8/14/2017

														Flood Damage Repairs					
														Capital Investment Strategy Project					
No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
1	WLFL0 MILLER R RD RVTMNT 2016 REPAIR	1129356	Repair	N/A	WLR	\$50,000	\$1,409	\$710,799	\$48,591		\$759,390	\$0	\$0	\$0	\$0	\$0	\$759,390	\$760,799	Damage to revetment. Very large rock removed from revetment, vertical banks and exposed subgrade in several locations totaling approximately 350 feet of damage. If not repaired, Miller River Road could be severely damaged.
2	WLFL0 SKY W RVR DR FLOOD STUDY	1112057	63%	36%	WLR	\$81,237	\$2,475	\$0	\$78,762		\$78,762	\$0	\$0	\$0	\$0	\$0	\$78,762	\$81,237	This project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding of homes and property within the Town of Skykomish.
3	WLFL0 SF SKYKMSH REP LOSS MIT	1044461	74%	46%	Acqu/Elev	\$567,650	\$295,404	\$39,188	\$272,246	\$84,000	\$395,434	\$0	\$0	\$0	\$0	\$0	\$395,434	\$690,838	This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future flood events.
4	WLFL0 SKYKOMISH HOME BUYOUTS	1112052	66%	44%	Acqu/Elev	\$380	\$380	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$400,380	Acquisition of at-risk single family homes in the Town of Skykomish.
5	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	1129357	Repair	N/A	WLR	\$150,000	\$61,767	\$0	\$88,233		\$88,233	\$0	\$0	\$0	\$0	\$0	\$88,233	\$150,000	Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
6	WLFL0 SKYKOMISH LB UP 2016 REPAIR	1129358	Repair	N/A	WLR	\$260,845	\$7,658	\$0	\$253,187	\$48,588	\$301,775	\$0	\$0	\$0	\$0	\$0	\$301,775	\$309,433	Three pockets of missing armor rock: 15, 10 and 75 feet wide and eroded topsoil from upper sections of levee. Further flooding may compromise or severely damage facility.
7	WLFL0 TIMBER LN EROSN BUYOUTS	1044460	76%	46%	Acqu/Elev	\$2,354,445	\$1,571,273	\$232,068	\$783,172		\$1,015,240	\$656,729	\$0	\$0	\$0	\$0	\$1,671,969	\$3,243,242	This project will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as inundation in some places.
8	WLFL0 TIMBERLANE 2016 REPAIR	1129359	Repair	N/A	WLR	\$52,500	\$11,040	\$0	\$41,460		\$41,460	\$0	\$0	\$0	\$0	\$0	\$41,460	\$52,500	Old privately built facility in Timberlane Village on County property. Riverside rockery walls continue to oversteepen, settle and fall into the river.
9	WLFL1 428TH AVE SE BR FEASIBILITY	1126589	FCD	FCD	WLR	\$300,000	\$168,614	\$0	\$131,386		\$131,386	\$0	\$0	\$0	\$0	\$0	\$131,386	\$300,000	FCD-requested project to reduce neighborhood isolation from flooding.
10	WLFL1 CIRCLE RVR RANCH RISK RED	1121044	N/A	N/A	WLR	\$150,000	\$64,225	\$0	\$85,775		\$85,775	\$0	\$0	\$0	\$0	\$0	\$85,775	\$150,000	This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
11	WLFL1 MASON THRSN EXT 2016 REPAIR	1129360	Repair	N/A	WLR	\$240,000	\$0	\$0	\$240,000		\$240,000	\$0	\$0	\$0	\$0	\$0	\$240,000	\$240,000	Large scour hole in bank at upstream end of Mason Thorson Extension rock-faced levee. Significant settlement and displacement of face rock at upstream end of facility. Scour hole in bank threatens to end-run facility and damage adjacent private property. Damage to levee face-rock compromises levee integrity and may lead to progressive failure, especially at upstream end.
12	WLFL1 MF SNO CORRIDOR IMP	1121588	76%	51%	WLR	\$1,100,000	\$954	\$0	\$1,099,046		\$1,099,046	\$508,830	\$391,776	\$1,244,138	\$3,325,350	\$0	\$6,569,140	\$6,570,094	Placeholder for corridor plan implementation project(s)
13	WLFL1 MF SNO CORRIDOR PLAN	1044469	76%	33%	WLR	\$1,824,912	\$1,310,605	\$0	\$514,307		\$514,307	\$0	\$0	\$0	\$0	\$0	\$514,307	\$1,824,912	Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2016.
14	WLFL1 N BEND RESID FLD MITGTN	1044465	76%	61%	Acqu/Elev	\$1,555,476	\$1,555,278	(\$10,859)	\$198	\$10,661	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,555,278	Project complete. Additional future mitigation work in the Upper Snoqualmie will be implemented under Upper Snoqualmie Residential Flood Mitigation project.
15	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	1129361	Repair	N/A	WLR	\$385,000	\$111	\$0	\$384,889		\$384,889	\$0	\$0	\$0	\$0	\$0	\$384,889	\$385,000	The North Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the bridge safe and reliable during a flood, it is important to protect the piers and abutments from scour failure.
16	WLFL1 REIF RD 2016 REPAIR	1129362	Repair	N/A	WLR	\$50,000	\$0	\$179,950	\$50,000	\$23,050	\$253,000	\$0	\$0	\$0	\$0	\$0	\$253,000	\$253,000	Length 50-80 feet. Face rock has appeared to have settled 1-2 feet exposing core material above near upper part of levee face. Larger face rock missing in pockets upstream end of this damage site. Continued damage could compromise facility which provides flood protection for several residences landward of the facility.
17	WLFL1 SHAKE MILL RB 2016 REPAIR	1129363	Repair	N/A	WLR	\$20,000	\$0	\$32,169	\$20,000	\$145,331	\$197,500	\$0	\$0	\$0	\$0	\$0	\$197,500	\$197,500	Between 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60 feet of river bank. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE).
18	WLFL1 SHAKE MILL LB 2016 REPAIR	1129364	Repair	N/A	WLR	\$100,000	\$0	\$700,000	\$100,000		\$800,000	\$0	\$0	\$0	\$0	\$0	\$800,000	\$800,000	Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could threaten 428th Ave embankment or bridge.
19	WLFL1 SF SNO CORR EARLY ACTION	1122632	95%	49%	WLR	\$3,562,744	\$1,373,089	\$2,000,000	\$2,189,655		\$4,189,655	\$2,433,511	\$8,098,380	\$150,000	\$0	\$0	\$14,871,546	\$16,244,635	Project identified by Board to alleviate potential flooding of I-90 in North Bend. Currently evaluating project alternatives, including levee setback and gravel removal.
20	WLFL1 SF SNO CORRIDOR IMP	1121587	95%	49%	WLR	\$130,771	\$0	\$0	\$130,771		\$130,771	\$1,946,796	\$2,608,109	\$2,289,843	\$383,693	\$0	\$7,359,212	\$7,359,212	Placeholder for corridor plan implementation project(s)
21	WLFL1 SF SNO CORRIDOR PLAN	1044466	79%	49%	WLR	\$2,621,454	\$2,472,914	\$0	\$148,540	\$61,460	\$210,000	\$0	\$0	\$0	\$0	\$0	\$210,000	\$2,682,914	SF Snoqualmie Corridor planning process and development of capital investment strategy.
22	WLFL1 SR202 SF BRIDGE LENGTHEN	1130025	76%	26%	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
23	WLFL1 UPPER SNOQ 2015 FLOOD REPAIR	1126590	Repair	N/A	WLR	\$700,000	\$5,673	\$0	\$694,327	\$765,673	\$1,460,000	\$302,981	\$0	\$0	\$0	\$0	\$1,762,981	\$1,768,654	Flood damage repairs from January 2015 flood event. Locations include Mason-Thorson Ells and Mason-Thorson Extension (Middle Fork Snoqualmie); North Park (North Fork Snoqualmie); and Record Office, Meadowbrook, and Railroad (Snoqualmie mainstem).
24	WLFL1 UPR SNO RES FLD MITGTN	1044517	89%	54%	Acqu/Elev	\$11,232,391	\$9,163,547	\$738,893	\$2,068,844		\$2,807,737	\$2,010,126	\$2,070,430	\$2,132,543	\$2,196,519	\$2,262,415	\$13,479,770	\$22,643,317	This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with Cities of Snoqualmie and North Bend. As of May 2016 260 remain to be elevated or acquired. This amount assumes 10-12 home elevations per year.
25	WLFL2 DUTCHMAN RD REPAIR	1116342	Repair	N/A	WLR	\$0	\$0	\$209,914	\$0		\$209,914	\$355,136	\$0	\$0	\$0	\$0	\$565,050	\$565,050	Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
26	WLFL2 FARM FLOOD TSK FORCE IMP	1044581	58%	79%	WLR	\$720,937	\$668,348	\$42,822	\$52,589		\$95,411	\$102,000	\$104,040	\$106,121	\$108,243	\$110,408	\$626,223	\$1,294,571	This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
27	WLFL2 L SNO REP LOSS MITGTION	1044580	74%	21%	Acqu/Elev	\$1,712,699	\$1,269,231	\$0	\$443,468		\$443,468	\$222,862	\$0	\$0	\$0	\$0	\$666,330	\$1,935,561	Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
28	WLFL2 L SNO/ALDAIR CORRDROR PLN	1044576	84%	97%	WLR	\$6,800,543	\$5,644,814	\$452,218	\$1,155,729		\$1,607,947	\$742,630	\$764,909	\$675,305	\$0	\$0	\$3,790,791	\$9,435,605	Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie. Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
29	WLFL2 LWR SNO RESDL FLD MITGTN	1044582	FCD	FCD	Acqu/Elev	\$2,630,971	\$1,927,117	\$675,305	\$703,854		\$1,379,159	\$716,431	\$760,062	\$775,263	\$790,769	\$806,584	\$5,228,268	\$7,155,384	This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
30	WLFL2 SE 19TH WAY REVETMENT	1122633	FCD	FCD	WLR	\$623,588	\$292,549	\$1,082,706	\$331,039		\$1,413,745	\$150,000	\$0	\$0	\$0	\$0	\$1,563,745	\$1,856,294	Rebuild revetment to protect road access to high value agricultural operations and lands. Construction of road anticipated 2017; bank repair anticipated in 2018.
31	WLFL2 SE DAVID POWELL RD DOWNSTREAM	1126591	FCD	FCD	WLR	\$1,000,000	\$149,535	\$36,456	\$850,465		\$886,921	\$0	\$0	\$0	\$0	\$0	\$886,921	\$1,036,456	FCD-requested project to reduce neighborhood isolation from flooding.
32	WLFL2 SE FISH HATCHERY RD	1126592	FCD	FCD	WLR	\$500,000	\$124,843	\$27,905	\$375,157		\$403,062	\$0	\$0	\$0	\$0	\$0	\$403,062	\$527,905	FCD-requested project to reduce neighborhood isolation from flooding.

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
33	WLFL2 DUVALL BRIDGE 1136A	1130513	FCD	FCD	WLR	\$0	\$0	\$30,000	\$0		\$30,000	\$120,000	\$0	\$0	\$0	\$0	\$150,000	\$150,000	The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
34	WLFL2 SE DAVID POWELL RD UPSTREAM	1130514	FCD	FCD	WLR	\$0	\$0	\$250,000	\$0		\$250,000	\$700,000	\$1,250,000	\$0	\$0	\$0	\$2,200,000	\$2,200,000	The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway.
35	WLFL2 SNOQUALMIE VALLEY FEASIBILITY	1130515	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$500,000	\$500,000	Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.
36	WLFL2 WOODINVILLE DUVALL BR 1136B/1136E	1130516	FCD	FCD	WLR	\$0	\$0	\$100,000	\$0		\$100,000	\$300,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent losing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
37	WLFL2 SINNEMA QUALE 2011 REPR	1112046	100%	N/A	WLR	\$10,204,102	\$11,974,543	\$0	(\$1,770,441)	\$2,304,414	\$533,973	\$0	\$0	\$0	\$0	\$0	\$533,973	\$12,508,516	Large capital project to repair 1000 linear feet of the Sinnema Quaaale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoqualmie Valley Trail. Construction to be completed in 2017; project anticipated to be closed out in 2018.
38	WLFL2 TOLT PIPELINE PROTECTION	1044579	84%	49%	WLR	\$2,630,997	\$1,515,788	\$6,140,378	\$1,115,209	(\$5,500,000)	\$1,755,587	\$42,436	\$0	\$0	\$0	\$0	\$1,798,023	\$3,313,811	This project will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqualmie River channel threatens to undermine the Seattle Public Utilities water supply line at this location south of Duvall. Construction anticipated 2017.
39	WLFL3 FREW LEVEE 2016 REPAIR	1129365	Repair	N/A	WLR	\$50,000	\$0	\$100,000	\$50,000		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an oversteepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood.
40	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	1129366	Repair	N/A	WLR	\$20,000	\$0	\$40,000	\$20,000		\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000	Approximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure.
41	WLFL3 HOLBERG FEASIBILITY	1132019	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000	Feasibility study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from the regulatory Channel Migration Zone as mapped in the March 2017 Draft Tolt River Channel Migration study
42	WLFL3 L FREW LEVEE SETBACK	1131803			WLR	\$0	\$0			\$175,000	\$175,000	\$1,000,000	\$2,425,000				\$3,600,000	\$3,600,000	Capital Investment Strategy: Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. FCD 6-year includes funds needed for grant match for future grant applications.
43	WLFL3 LOWER TOLT RIVER ACQUISITION	1112034			Acqu/Elev	\$744,475	\$529,475	\$0	\$215,000		\$215,000	\$0	\$0	\$0	\$0	\$0	\$215,000	\$744,475	Acquisition between the Swiftwater development and the river for the future setback of the Upper Frew Levee
44	WLFL3 SAN SOUCI NBRHOOD BUYOUT	1044645	82%	79%	Acqu/Elev	\$4,949,206	\$4,127,691	\$604,147	\$821,515		\$1,425,662	\$0	\$0	\$0	\$0	\$0	\$1,425,662	\$5,553,353	This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community access road, ultimately completing project initiated 20 years ago by others. When completed, will result in removing approximately 20 homes from high hazard areas within and just upstream and downstream of San Souci neighborhood.
45	WLFL3 TOLT 2015 FLOOD REPAIRS	1126593	Repair	N/A	WLR	\$900,000	\$46,790	\$0	\$853,210		\$853,210	\$22,419	\$0	\$0	\$0	\$0	\$875,629	\$922,419	Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp.
46	WLFL3 TOLT CORRIDOR IMPLMNTN	1123253	87%	82%	WLR	\$25,252	\$0	\$75,000	\$25,252	(\$100,252)	\$0	\$679,867	\$635,353	\$1,717,650	\$5,037,804	\$0	\$8,070,674	\$8,070,674	Placeholder for corridor plan implementation project(s). Assumes project initiation late 2017.
47	WLFL3 TOLT CORRIDOR PLAN	1044644	87%	82%	WLR	\$958,560	\$958,717	\$0	(\$157)	\$195,097	\$194,940	\$0	\$0	\$0	\$0	\$0	\$194,940	\$1,153,657	The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions. Scheduled for adoption 2015-16.
48	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	1131559			WLR	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$300,000	\$250,000	\$0	\$0	\$0	\$700,000	\$700,000	Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
49	WLFL3 TOLT R MILE 1.1 SETBACK	1112058	84%	79%	Acqu/Elev	\$5,699,606	\$4,097,106	(\$215,246)	\$1,602,500		\$1,387,254	\$318,270	\$546,363	\$0	\$0	\$0	\$2,251,887	\$6,348,993	Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
50	WLFL3 TOLT R NATURAL AREA ACQ	1115032	66%	64%	Acqu/Elev	\$1,639,503	\$1,140,067	\$30,107	\$499,436	\$800,457	\$1,330,000	\$530,450	\$546,363	\$562,754	\$466,156	\$0	\$3,435,723	\$4,575,790	Capital investment strategy: acquire at-risk homes from willing sellers.
51	WLFL3 TOLT R RD ELEVATION FEASIBILITY	1126597	FCD	FCD	WLR	\$250,000	\$0	\$0	\$250,000		\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	FCD-requested project to reduce neighborhood isolation from flooding.
52	WLFL4 RAGING R BRIDGE 1008E	1130553	FCD	FCD	WLR	\$0	\$0	\$80,000	\$0		\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000	This bridge has a history of scour damage. One of the arch foundations is exposed. Repair scour mitigation measures to protect the footing. It serves only one house but is a designated King County Landmark.
53	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	1044647	76%	79%	Acqu/Elev	\$2,374,412	\$1,715,652	(\$93,760)	\$658,760		\$565,000	\$484,878	\$0	\$0	\$0	\$0	\$1,049,878	\$2,765,530	Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
54	Snoqualmie-South Fork Skykomish Subtotal					\$71,924,656	\$54,248,682	\$14,290,160	\$17,675,974	(\$636,521)	\$31,329,613	\$14,646,352	\$20,450,785	\$9,653,617	\$12,558,534	\$3,929,407	\$92,568,308	\$146,816,990	
55																			
56																			
57	WLFL5 SAMMAMISH R BANK REPAIRS	1124988	Repair	N/A	WLR	\$400,000	\$106,050	\$19,895	\$293,950		\$313,845	\$0	\$0	\$0	\$0	\$0	\$313,845	\$419,895	Repair and stabilize two short sections of the right riverbank near I-405 to protect the regional Sammamish River trail. Work is being coordinated with Parks. Full permitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to I-405 proximity. Construction is targeted for summer 2016 and will likely require detouring trail users to adjacent roads.
58	WLFL5 NE 8TH ST AT LAKE ALLEN OUTLET	1130555	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$400,000	\$1,400,000	\$1,000,000	\$2,800,000	\$2,800,000	To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-raining options; prepare Concept Development Report, analyze and select best options.
59	WLFL5 WILLOWMOOR FLDPLAIN REST	1112037	58%	8%	WLR	\$2,232,642	\$1,405,468	\$485,281	\$827,174		\$1,312,455	\$500,000	\$2,964,719	\$50,000	\$0	\$0	\$4,827,174	\$6,232,642	Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will reconfigure the Sammamish transition zone to ensure ongoing flow conveyance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. In June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including various design elements such as variable depth pools, cold water supplementation, and other elements itemized in the motion.
60	WLFL6 LOWER COAL CRK PH I	1116846	71%	49%	Agreement	\$1,503,576	\$1,504,751	\$2,275,000	(\$1,175)	\$180,175	\$2,454,000	\$2,457,000	\$2,311,000	\$10,000	\$10,000	\$0	\$7,242,000	\$8,746,751	Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Washington. Implemented by City of Bellevue. Expenditure forecast to be updated based on current project schedule.
61	WLFL6 MCALEER/LYON CHAN IMPRVM	1116847	79%	77%	Agreement	\$1,050,000	\$1,050,751	\$0	(\$751)	\$751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,050,751	Re-establish a more natural floodplain widening for Lyon Creek and upgrade undersized culverts in the project area. Project may include high-flow bypass alternatives. Funding is 25% local share for FEMA grant; implemented by City of Lake Forest Park. Project to be closed out in 2017.
62	WLFL7 BELMONDO FEMA 1653 PH I	1112024	Repair	N/A	WLR	\$1,901,295	\$1,905,904	\$0	(\$4,609)	\$4,609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,905,904	Flood damage repair of revetment protecting SR 169, the regional trail, and fiberoptic line.
63	WLFL7 CDR PRE-CONST STRTGC ACQ	1044734	84%	69%	Acqu/Elev	\$2,830,814	\$2,532,848	\$1,499,718	\$297,966		\$1,797,684	\$1,529,712	\$1,560,306	\$1,591,512	\$1,623,342	\$1,655,809	\$9,758,365	\$12,291,213	This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent, namely the levee setback projects at the Herzman, Jan Rd, Rhode, Getchman, and Rutledge-Johnson Lower Jones Rd levee segments. Acquisition funding reduced pending Board action on the Cedar corridor planning effort and the District's acquisition policy.
64	WLFL7 CEDAR CORRIDOR IMPLMNTN	1123252	76%	44%	WLR	\$16,763	\$0	\$328,437	\$16,763	(\$345,200)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Placeholder for corridor plan implementation project(s)

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
65	WLFL7 MAPLEWOOD FEASIBILITY STUDY	1131687			WLR	\$0	\$0	\$0	\$0	\$440,000	\$440,000	\$0	\$0	\$0	\$0	\$0	\$440,000	\$440,000	Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee.
66	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	1131548			WLR	\$0	\$0	\$0	\$0	\$36,000	\$36,000	\$3,057,792	\$1,738,873	\$4,569,548	\$1,544,801	\$40,575	\$10,987,589	\$10,987,589	Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties
67	WLFL7 HERZMAN LEVEE SETBACK AND TRAIL	1131549			WLR	\$0	\$0	\$0	\$0		\$0	\$924,581	\$226,184	\$3,972,541	\$78,786	\$81,149	\$5,283,240	\$5,283,240	Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
68	WLFL7 JAN ROAD NEIGHBORHOOD	1131550			WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$200,000	\$350,000	\$350,000	\$900,000	\$900,000	Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, contruction of side channel, and mitigation of at-risk properties.
69	WLFL7 LOWER CEDAR FEASIBILITY STUDY	1131689			WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$200,000	\$200,000	\$100,000	\$0	\$500,000	\$500,000	Capital Investment Strategy: Conduct feasibility study to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis.
70	WLFL7 CEDAR RIVER TRAIL SITE 2A BANK	1131691			WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$10,000	\$40,000	\$50,000	\$790,000	\$890,000	\$890,000	Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank failure.
71	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	1131690			Agreement	\$0	\$0	\$0	\$0		\$0	\$750,000	\$4,250,000	\$0	\$0	\$0	\$5,000,000	\$5,000,000	Placeholder for Renton levee certification projects.
72	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	1116060	84%	69%	WLR	\$1,987,587	\$1,624,424	\$0	\$363,163		\$363,163	\$0	\$0	\$0	\$0	\$0	\$363,163	\$1,987,587	This six-year flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington. Completion of this plan is expected in September 2016.
73	WLFL7 CEDAR R REP LOSS MITGATN	1044651	74%	8%	Acqu/Elev	\$3,788,422	\$3,182,250	\$58,679	\$606,172	(\$58,679)	\$606,172	\$0	\$0	\$0	\$0	\$0	\$606,172	\$3,788,422	Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition policy.
74	WLFL7 CEDAR RVR GRAVEL REMOVAL	1044729	89%	59%	Agreement	\$11,728,768	\$8,480,221	\$774,117	\$3,248,547	(\$1,400,000)	\$2,622,664	\$325,046	\$82,035	\$84,495	\$87,030	\$89,640	\$3,290,910	\$11,771,131	The project will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016.
75	WLFL7 ELLIOTT BR LEVEE SETBACK	1112041	79%	56%	WLR	\$2,425,408	\$2,168,073	\$0	\$257,335	(\$250,000)	\$7,335	\$0	\$0	\$0	\$0	\$0	\$7,335	\$2,175,408	Purpose of the project is to setback levees on both sides of the river below the Elliott/154th ST Bridge.
76	WLFL7 FBD CORRIDOR IMPLEMENTATION	1128284	84%	69%	Acqu/Elev	\$2,150,000	\$932,547	\$3,555,500	\$1,217,453		\$4,772,953	\$806,284	\$0	\$0	\$0	\$0	\$5,579,237	\$6,511,784	Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle
77	WLFL7 SE 162ND AVE AT 266TH CT	1130556	FCD	FCD	WLR	\$0	\$0	\$150,000	\$0		\$150,000	\$250,000	\$400,000	\$700,000	\$0	\$0	\$1,500,000	\$1,500,000	To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
78	WLFL7 SR 169 FEASIBILITY STUDY	1130557	FCD	FCD	WLR	\$0	\$0	\$260,000	\$0		\$260,000	\$0	\$0	\$0	\$0	\$0	\$260,000	\$260,000	Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates.
79	WLFL7 RAINBOW BEND LEVEE STBCK	1112029	76%	79%	WLR	\$2,369,091	\$2,104,185	(\$264,906)	\$264,906	\$109,100	\$109,100	\$0	\$0	\$0	\$0	\$0	\$109,100	\$2,213,285	This project represents the Flood District contribution to a larger project to remove the Rainbow Bend levee in order to slow flood velocities and reduce flood elevations in this area of the river. Funding added in 2017R for road ROW vacation costs.
80	WLFL7 RIVERBEND MHP ACQ	1119888	82%	46%	WLR	\$5,357,042	\$3,496,466	\$0	\$1,860,576		\$1,860,576	\$0	\$0	\$0	\$0	\$0	\$1,860,576	\$5,357,042	This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach.
81	Cedar-Sammamish Subtotal					\$39,741,408	\$30,493,938	\$9,141,721	\$9,247,470	(\$1,283,244)	\$17,105,947	\$10,600,414	\$13,743,117	\$11,818,096	\$5,243,959	\$4,007,173	\$62,518,706	\$93,012,644	
82																			
83																			
84	WLFL8 BRISCOE LEVEE SETBACK	1116515	82%	36%	Agreement	\$23,330,271	\$21,361,073	\$0	\$1,969,198		\$1,969,198	\$0	\$0	\$0	\$0	\$0	\$1,969,198	\$23,330,271	Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
85	WLFL8 BRPS BLACK R PUMP STATION	1116360	100%	72%	WLR	\$5,374,203	\$5,134,042	\$0	\$240,161		\$240,161	\$36,060	\$0	\$0	\$0	\$0	\$276,221	\$5,410,263	Expenditures here include sediment removal, fuel system upgrades, life-cycle efficiency analysis to inform future upgrades, and priority items from recently completed needs assessment (2015). New line items established below to account for discrete project elements.
86	WLFL8 BRPS CONTROL BLDG RPLCMT	1129569	100%	72%	WLR	\$0	\$0	\$50,000	\$0		\$50,000	\$1,672,200	\$6,982,700	\$0	\$0	\$0	\$8,704,900	\$8,704,900	New project line; previously combined as part of Line 85
87	WLFL8 BRPS FISH PASS IMPRVMTS	1130020	100%	72%	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$10,000	\$25,000	\$692,000	\$1,863,500	\$2,590,500	\$2,590,500	New project line; previously combined as part of Line 85
88	WLFL8 BRPS HIGH-USE ENGINES	1129574	100%	72%	WLR	\$0	\$0	\$252,900	\$0		\$252,900	\$1,292,500	\$0	\$0	\$0	\$0	\$1,545,400	\$1,545,400	New project line; previously combined as part of Line 85
89	WLFL8 BRPS SUPPORT SYS UPGRADES	1130024	100%	72%	WLR	\$0	\$0	\$0	\$0		\$0	\$50,000	\$147,200	\$646,400	\$597,650	\$0	\$1,441,250	\$1,441,250	New project line; previously combined as part of Line 85
90	WLFL8 PATTON BRIDGE 3015	1130559	FCD	FCD	WLR	\$0	\$0	\$150,000	\$0		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway.
91	WLFL8 SE 380 PL AT SR 164	1130560	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$90,000	\$100,000	\$400,000	\$100,000	\$0	\$690,000	\$690,000	Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.
92	WLFL8 SE 384 ST @ 176 AVE SE	1130561	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent losing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
93	WLFL8 DESIMONE USACE 2015	1124990	100%	N/A	Agreement	\$2,500,000	\$1,634,698	\$63,620	\$865,302		\$928,922	\$0	\$0	\$0	\$0	\$0	\$928,922	\$2,563,620	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
94	WLFL8 DYKSTRA USACE 2015	1126059	100%	N/A	Agreement	\$1,685,097	\$638,356	(\$1,295,068)	\$1,046,741	\$302,827	\$54,500	\$1,768	\$0	\$0	\$0	\$0	\$56,268	\$694,624	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
95	WLFL8 GREEN R PL84-99 MITIGATN	1044882	89%	72%	WLR	\$4,062,558	\$3,668,478	\$981,430	\$394,080	(\$1,000,000)	\$375,510	\$500,000	\$0	\$0	\$0	\$0	\$875,510	\$4,543,988	This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program.
96	WLFL8 HSB BREDA SETBACK	1132391	95%	41%	WLR	\$2,595,720	\$107,999	\$1,755,000	\$2,487,721		\$4,242,721	\$550,000	\$3,290,000	\$21,500	\$0	\$0	\$8,104,221	\$8,212,220	New project to implement interim SWIF adopted by Board of Supervisors.
97	WLFL8 HSB MCCOY REALIGNMENT	1129576	FCD	FCD	WLR	\$0	\$0	\$400,000	\$0		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	New project to implement interim SWIF adopted by Board of Supervisors.
98	WLFL8 HSB NURSING HOME SETBACK	1123254	FCD	FCD	WLR	\$38,806	\$0	(\$38,806)	\$38,806		\$0	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$200,000	New project to implement interim SWIF adopted by Board of Supervisors.
99	WLFL8 INTERIM SWIF IMPLEMENTATION	1132006	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the operating budget.
100	WLFL8 LOWER RUSSELL ACQ KENT	1132007	FCD	FCD	Agreement	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	Acquisitions by the City of Kent for the Lower Russell levee setback project.
101	WLFL8 LWR RUSSELL LEVEE SETBACK	1112056	76%	56%	WLR	\$7,020,860	\$6,041,888	\$5,056,270	\$978,972		\$6,035,242	\$6,833,935	\$22,126,512	\$4,644,089	\$0	\$0	\$39,639,778	\$45,681,666	Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kentr to provide long-term flood protection and improve riparian and aquatic habitat. Increased expenditure authority to match interim SWIF adopted by Board of Supervisors.

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
102	WLFL8 MILWAUKEE LEVEE #2-KENT	1126595	FCD	FCD	Agreement	\$8,500,000	\$10,768	\$0	\$8,489,232		\$8,489,232	\$0	\$0	\$0	\$0	\$0	\$8,489,232	\$8,500,000	Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights. Current ILA with Kent for this first phase is \$3.65 million, the ILA assumes that the total project cost is \$8.5 million.
103	WLFL8 PORTER LEVEE	1124992	39%	41%	WLR	\$300,000	\$0	\$420,000	\$300,000		\$720,000	\$0	\$0	\$0	\$0	\$0	\$720,000	\$720,000	Contribute the cost of a repair (\$720,000) to a \$7 million levee setback project. By relocating the levee, future repair costs for the Flood Control District are reduced. In response to community concerns, the project also includes funding to elevate the road so that the school bus serving this neighborhood does not have to drive in the oncoming lane to avoid floodwaters.
104	WLFL8 REDDINGTON REACH SETBACK	1112035	68%	62%	WLR	\$16,889,083	\$16,564,851	\$0	\$324,232		\$324,232	\$0	\$0	\$0	\$0	\$0	\$324,232	\$16,889,083	Project expenditures will continue into 2017; closeout anticipated in 2018.
105	WLFL8 RUSSELL RD UPPER KENT	1044881	92%	72%	Agreement	\$5,987,228	\$6,020,673	\$0	(\$33,445)	\$84,945	\$51,500	\$0	\$0	\$0	\$0	\$0	\$51,500	\$6,072,173	Project is to improve the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. These segments of the Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.
106	WLFL8 SIGNATURE POINTE REVETMENT	1130562	FCD	FCD	WLR	\$0	\$0	\$300,000	\$0		\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000	Signature Pointe is a revetment/levee on the Green River between river mile 22.06 and 23.18 that does not meet the FEMA requirements for accreditation due to inadequate freeboard. This project includes development of a project charter and an alternatives analysis to select an alternative to achieve increased flood protection, embankment and toe protection in a manner that can be certified and accredited.
107	WLFL8 S 180TH ST BRIDGE FLOODWALL EXT	20171	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$65,378	\$65,378	\$0	\$0	\$0	\$0	\$0	\$65,378	\$65,378	The project will increase the height of a flood wall to provide approximately 30" of additional flood protection.
108	WLFL8 S 277TH ST REVETMENT	1127209	FCD	FCD	WLR	\$300,000	\$90,528	\$0	\$209,472		\$209,472	\$0	\$0	\$0	\$0	\$0	\$209,472	\$300,000	This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. No design or construction funding at this time.
109	WLFL8 TUK-205 USACE GACO REPAIR	1129367	R	N/A	WLR	\$50,000	\$44,246	\$80,440	\$5,754	\$8,933,613	\$9,019,807	\$0	\$0	\$0	\$0	\$0	\$9,019,807	\$9,064,053	600 feet of scour has exposed rock armor. No sign of armor loss. Interim SWIF capital project is for 0.33 miles of floodwall and toe/scour protection. Increased vulnerability to further scour and damage to facility.
110	WLFL8 TUK-205 RATOLO FLOODWALL	1130021	FCD	FCD	WLR	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$1,100,000	\$1,100,000	New project to implement interim SWIF adopted by Board of Supervisors.
111	WLFL8 TUK-205 SEGALE FLOODWALL	1129577	FCD	FCD	WLR	\$0	\$0	\$5,640,000	\$0	(\$5,640,000)	\$0	\$2,750,000	\$1,300,000	\$650,000	\$4,500,000	\$45,000	\$9,245,000	\$9,245,000	New project to implement interim SWIF adopted by Board of Supervisors. The Gaco portion of the Tukwila-205 levee between river mile 15.75 and 15.88 is over-steepened and damaged and cannot be adequately repaired using the existing easements. This project would acquire properties landward of the damaged levee to enable a levee setback and repair of the embankment and toe scour at this outside bend, in coordination with the Army Corps of Engineers PL 84-99 rehabilitation program.
112	WLFL8 USACE SWIF	1116363	FCD	FCD	WLR	\$2,287,724	\$2,209,817	(\$81,887)	\$77,907	\$3,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,209,817	Green River Corridor Planning (under System-Wide Improvement Framework agreement with Army Corps of Engineers)
113	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	1130118	FCD	FCD	WLR	\$1,743,249	\$0	\$0	\$1,743,249		\$1,743,249	\$0	\$0	\$0	\$0	\$0	\$1,743,249	\$1,743,249	Lower Green River Corridor Planning and Environmental Impact Statement.
114	Green-Duwamish Subtotal					\$82,664,799	\$63,527,418	\$13,733,899	\$19,137,382	\$3,780,743	\$36,652,024	\$13,776,463	\$33,956,412	\$6,386,989	\$5,889,650	\$3,358,500	\$100,020,038	\$163,547,456	
115																			
116																			
117	WLFL9 BUTTE AVE FLOOD MITIGATION	20172	FCD	FCD	Agreement	\$0	\$0	\$0	\$0	\$470,000	\$470,000	\$0	\$0	\$0	\$0	\$0	\$470,000	\$470,000	This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
118	WLFL9 COUNTYLINE TO A STREET	1112049	87%	74%	WLR	\$15,569,196	\$12,662,360	\$5,212,688	\$2,906,836	\$3,222,535	\$11,342,059	\$0	\$0	\$0	\$0	\$0	\$11,342,059	\$24,004,419	Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million content value), improves sediment storage and enhances habitat.
119	WLFL9 RED CREEK ACQUISITIONS	1130023	71%	41%	Acqu/Elev	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	Permanently eliminate the risk to public safety along this reach by acquiring and removing residential structure. Placeholder funding for appraisal and/or grant match dependent on landowner willingness.
120	WLFL9 RIGHT BANK LEVEE SETBACK	1112038	79%	64%	WLR	\$11,381,414	\$10,578,055	\$769,785	\$803,359		\$1,573,144	\$1,536,321	\$6,722,036	\$6,571,371	\$115,927	\$0	\$16,518,799	\$27,096,854	Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
121	WLFL9 WHITE - GREENWATER ACQ	1122630	66%	44%	Acqu/Elev	\$375,000	\$0	(\$375,000)	\$375,000		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	This project would acquire flood prone residence along the White River near the Greenwater River.
122	White Subtotal					\$27,325,610	\$23,240,415	\$5,607,473	\$4,085,195	\$3,692,535	\$13,385,203	\$1,536,321	\$6,722,036	\$6,571,371	\$115,927	\$200,000	\$28,530,858	\$51,771,273	
123																			
124																			
125	WLFLS SOUTH PARK PUMPSTATION	1112036	79%	64%	Agreement	\$2,690,575	\$1,786,219	\$3,310,756	\$904,356		\$4,215,112	\$504,244	\$0	\$0	\$0	\$0	\$4,719,356	\$6,505,575	Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
126	WLFLS S PARK DRAINAGE IMPROVEMENTS	1129203	FCD	FCD	Agreement	\$500,000	\$720	\$500,000	\$499,280		\$999,280	\$1,000,000	\$1,000,000	\$1,005,000	\$0	\$0	\$4,004,280	\$4,005,000	The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The conveyance improvements will work in conjunction with the Pump Station.
127	Seattle Subtotal					\$3,190,575	\$1,786,939	\$3,810,756	\$1,403,636	\$0	\$5,214,392	\$1,504,244	\$1,000,000	\$1,005,000	\$0	\$0	\$8,723,636	\$10,510,575	
128																			
129																			
130	WLFLX CORRIDOR PLN DESIGN/CONST PLACEHOLDER	1124993	N/A	N/A	WLR	\$142,610	\$0	\$0	\$142,610		\$142,610	\$2,489,775	\$2,452,537	\$11,213,074	\$9,430,286	\$2,010,077	\$27,738,359	\$27,738,359	Placeholder for corridor plan implementation project(s)
131	Countywide Corridor Plan Imp Subtotal					\$142,610	\$0	\$0	\$142,610	\$0	\$142,610	\$2,489,775	\$2,452,537	\$11,213,074	\$9,430,286	\$2,010,077	\$27,738,359	\$27,738,359	
132																			
133																			
134	WLFLG FLOOD REDUCTION GRANTS	1122628	FCD	FCD	Grant	\$8,541,782	\$2,585,919	\$3,058,908	\$5,955,863		\$9,014,771	\$3,133,710	\$3,196,473	\$3,270,846	\$3,345,125	\$3,420,602	\$25,381,527	\$27,967,446	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
135	WLFLM EFFECTIVENESS MONITORING	1112022	N/A	N/A	WLR	\$1,861,120	\$1,616,734	\$357,399	\$244,386		\$601,785	\$895,779	\$332,985	\$533,242	\$219,566	\$634,010	\$3,217,367	\$4,834,101	Evaluation of capital projects to determine effectiveness and identify project design improvements.
136	WLFL0 SUBREGNL OPPRTNTY FUND	1045042	FCD	FCD	Grant	\$37,939,497	\$27,038,460	\$5,743,771	\$10,901,037		\$16,644,808	\$5,828,701	\$5,945,440	\$6,083,773	\$6,221,932	\$6,362,319	\$47,086,973	\$74,125,433	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
137	WLFLX CENTRAL CHARGES	1044281	N/A	N/A	WLR	\$866,053	\$652,217	(\$284,560)	\$213,836	\$200,000	\$129,276	\$51,000	\$52,020	\$53,060	\$54,122	\$55,204	\$394,682	\$1,046,899	Central charges related to the FCD's capital fund.
138	WLFLX FLOOD EMERGENCY CONTGNCY	1044279	N/A	N/A	WLR	\$791,003	\$300,001	\$9,914	\$491,002		\$500,916	\$265,225	\$273,182	\$281,377	\$289,818	\$298,513	\$1,909,031	\$2,209,032	Contingency for emergency response actions during a flood event.
139	WLFLX WRIA GRANTS	1117333	FCD	FCD	Grant	\$18,708,959	\$11,348,474	\$4,390,296	\$7,360,485		\$11,750,781	\$4,504,883	\$4,622,460	\$4,743,106	\$4,866,901	\$4,993,928	\$35,482,059	\$46,830,534	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
140	Countywide Subtotal					\$68,708,414	\$43,541,805	\$13,275,728	\$25,166,609	\$200,000	\$38,642,337	\$14,679,298	\$14,422,560	\$14,965,405	\$14,997,464	\$15,764,576	\$113,471,639	\$157,013,445	
141																			
142	Grand Total					\$293,698,072	\$216,839,197	\$59,859,737	\$76,858,876	\$5,753,513	\$142,472,126	\$59,232,867	\$92,747,447	\$61,613,552	\$48,235,820	\$29,269,732	\$433,571,544	\$650,410,741	



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

August 17, 2017

FCD Resolution

Proposed No. FCD2017-03.1

Sponsors

1 A RESOLUTION relating to the organization of the
2 King County Flood Control Zone District;
3 approving a fourth contract amendment for
4 government relations services; and authorizing the
5 chair to execute the amendment.

6 WHEREAS, the board of supervisors has determined that it is in the best interests
7 of the King County Flood Control Zone District to approve an amendment to the current
8 contract for government relations services; now, therefore

9 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING
10 COUNTY FLOOD CONTROL ZONE DISTRICT:

11 SECTION 1. The board of supervisors approves the "Fourth Amendment to
12 Contract for Consultant Services" as set forth in the Attachment A to this resolution. The

- 13 chair of the King County Flood Control Zone District is authorized to execute the
14 Amendment on behalf of the District.
15

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON

Reagan Dunn, Chair

ATTEST:

Melani Pedroza, Clerk of the Board

Attachments: A. Fourth Amendment to Contract for Consultant Services

**FOURTH AMENDMENT TO
CONTRACT FOR CONSULTANT SERVICES
KING COUNTY FLOOD CONTROL ZONE DISTRICT**

This FOURTH AMENDMENT amends Section 2, Section 3, and Exhibit “A” (Scope of Services) of the Contract for Consultant Services (“Contract”) between the King County Flood Control Zone District, King County, Washington, a municipal corporation of the State of Washington (“District”) and W2Advocates (“Consultant”) as follows:

A. Amendment of Section 2. Effective August 1, 2017, Section 2 of the Contract is amended as follows:

2. Compensation and Method of Payment.

The District shall pay Consultant according to the rates set forth in amounts as described in Exhibit “A” to the Fourth Amendment to this Agreement; provided, that the total amount shall not exceed \$222,500.

B. Amendment of Section 3. Effective August 1, 2017, Section 3 of the Contract is amended as follows:

3. Duration of Agreement. This Agreement shall be in full force and effect for a period commencing on December 16, 2014 and ending July 31, 2017, unless sooner terminated or extended under the provisions of this Agreement. Time is of the essence of this Agreement in each and all of its provisions in which performance is required.

C. Amendment of Exhibit “A.” Effective August 1, 2017, Exhibit “A” to the Contract for Consultant Services is amended as set forth in Exhibit “A” attached to this Fourth Amendment.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment on the dates written below:

KING COUNTY FLOOD CONTROL
ZONE DISTRICT

CONSULTANT

By: _____

By: _____

Title: Board Chair

Title: _____

Date: _____

Date: _____

Exhibit A
Scope of Work and Budget

Scope of Work

Task 1. Federal Agency and Delegation Outreach

W2A will work with KCFCD to continue engagement with the federal delegation and relevant agencies on issues including:

- Green River SWIF/Lower Green River Corridor Plan and ESA Section 7 Review
- White River/Mud Mountain Dam flooding issues

Task 2. State Legislature Advocacy and Monitoring

W2A will coordinate with KCFCD and regional partners to support local and regional projects in the state legislative budget process, including:

- Pursuing funding for projects at Lower Russell Road and Willowmoor
- Potential Floodplain by Design project funding

In addition, W2A will provide budget and legislation monitoring during the 2018 legislative session. This will include weekly bill trackers/updates and conference calls/meetings as needed.

Task 3. Washington Waters Legislation

We will continue to monitor and engage in the Washington Waters legislation as conversations continue over the interim and as additional proposals are developed, including:

- Continued discussions on adjustments to funding options that would extend FBD projects eligibility to urban environments.

Budget

Monthly retainer with a flat fee of \$7500 per month for the contract period beginning August 1, 2017 and ending July 31, 2018. Out of pocket expenses are included in the above fee. If needed, travel costs associated with any travel to Washington, DC, for meetings with the delegation or federal agencies will be billed separately.

REVISED STAFF REPORT

Agenda Item:	5	Name:	Michelle Clark
Proposed No.:	FCD Resolution No 2017- 03	Date:	August 21, 2017

FCD Resolution No 2017-03: A Resolution relating to the organization of the King County Flood Control Zone District, approving a fourth contract amendment for government relations services; and authorizing the chair to execute the amendment.

The contract with Washington2Advocates (W2A), the Flood District's government relations contractor expires on July 31, 2017. W2A has provided government relations services for the District since December 2014. During this time, W2A has successfully worked in Olympia on behalf of the District to obtain an exemption from the \$5.90 property tax cap for the first \$0.25 of the District's levy allowing the District to operate without the fear of levy suppression, worked to arrange meetings for Supervisors in Washington DC to discuss the System-Wide Improvement Framework on the Lower Green River, and is currently working in Olympia to obtain grant funding for District Capital Projects.

Proposed FCD Resolution 2017-03 amends the contract with W2A until July 31, 2018.

The District Executive Committee unanimously recommended approval of FCD Resolution No 2017-03 to the District Board of Supervisors.

ATTACHMENTS

1. Proposed FCD Resolution No. 2017-03

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KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

August 17, 2017

FCD Resolution

Proposed No. FCD2017-04.1

Sponsors

1 A RESOLUTION relating to the operations and finances of the
2 King County Flood Control Zone District; authorizing the
3 expenditure of District funds for projects and activities in Water
4 Resource Inventory Areas 7 (Snoqualmie Watershed portion) 8, 9
5 and 10 (King County portion).

6 WHEREAS, the King County Flood Control Zone District's ("District")
7 comprehensive plan prioritizes expanded partnerships and collaborations with watershed
8 forums; and

9 WHEREAS, the District's comprehensive plan emphasizes the consideration of
10 fish and wildlife habitat when managing flood-risk; and

11 WHEREAS, the District seeks to protect public safety and promote the recovery
12 of native salmon species; and

13 WHEREAS, the District adopts an annual work program, budget, operating
14 budget for King County, capital budget and six-year capital improvement program
15 pursuant to chapter 86.15 RCW; and

16 WHEREAS, the District desires to continue funding watershed resource inventory
17 area ("WRIA") activities and projects that are identified using a process for awarding
18 WRIA grants in which the WRIA forums made grant recommendations to the District
19 and the King County water and land resources division administers the grant processes;

20 and

21 WHEREAS, in establishing the District's 2017 budget, the District provided
22 \$4,393,506 in funding for projects and activities in WRIA's 7 (Snoqualmie Watershed
23 portion), 8, 9 and 10 (King County portion); now, therefore

24 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING
25 COUNTY FLOOD CONTROL ZONE DISTRICT:

26 SECTION 1. A. The Board authorizes the funding of water quality and water
27 resources and habitat restoration projects and activities as follows:

- 28 1. WRIA 7 (Snoqualmie Watershed portion) - \$872,286;
29 2. WRIA 8 - \$1,646,361;
30 3. WRIA 9 - \$1,648,759; and
31 4. WRIA 10 (King County portion) - \$226,100.

32

33

34 B. The amounts listed in Section A. are in accordance with the projects, grant recipients
35 and individual grant amounts described in Attachment A to this resolution.

36

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON

Reagan Dunn, Chair

ATTEST:

Melani Pedroza, Clerk of the Board

Attachments: A. 2017 CWM Grant Recommendations

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
SNOQUALMIE WATERSHED IN WRIA 7						
7	2017 Snoqualmie Project Assistance	Forum/Cities	The 2018 Snoqualmie Restoration and Project Assistance Program is an ongoing effort managed and delivered by the Snoqualmie Watershed Forum staff to maximize success in implementing the 2005 Snohomish River Basin Salmon Conservation Plan in the King County portion of WRIA 7. The program will (1) assist project implementers in identifying, developing and advancing high priority habitat projects, water quality improvement and planning efforts, (2) conduct Forum-led project coordination activities, and (3) support regional watershed management through policy and technical coordination.	\$25,173	\$115,000	\$ 115,000
7	2018 Snoqualmie River Juvenile Salmon Outmigration Monitoring	Tulalip Tribes	The project seeks to continue the annual monitoring of juvenile salmon outmigration in the Snoqualmie River Basin utilizing a rotary screw trap located at river mile 12.2 on the Snoqualmie River. This project is a part of the overall Snohomish Basin juvenile salmon out migration monitoring effort which began in 2001 and which provides ongoing status, trends and abundance monitoring needed to support run forecasting, and is a quintessential indicator of successful salmon recovery monitoring in the Snohomish Basin.	\$48,002	\$60,000	\$ 60,000
7	Cherry Creek Phase I	Sound Salmon Solutions	As part of the original designs for this project, a farm pad was to be built on site adding a benefit to the landowner and providing a disposal site for the large amounts of soil being removed to create the slopped banks. The project has been unsuccessful in permitting the farm pad in the original size and location as shown in the designs. Additional funding is needed to dispose of most of the material off site. There is potential that farm pad will be able to be built at a different site in the Duvall area, still providing a benefit to the agricultural community and reducing disposal costs as much as possible while still removing the material from the construction site.	\$30,000	\$100,000	\$ 75,000
7	Upper Carlson Fish Monitoring	King County ERES	King County proposes to measure fish density in edge habitats in the lower Snoqualmie River in the vicinity of the Upper Carlson Restoration Project. The results would be combined with edge habitat surveys to estimate changes in habitat capacity that result from restoration projects.		\$28,431	\$ 28,431

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
7	Griffin-Snoqualmie Riparian Restoration	Sound Salmon Solutions	Sound Salmon Solutions will work with partners to conduct 11.4-acres of riparian restoration along the mainstem Snoqualmie River, and Griffin Creek. The purpose of the project is to improve water quality and salmon habitat in the Snoqualmie River and Griffin Creek.	\$7,200	\$99,898	\$ 99,898
7	Wallace Acres Riparian Restoration & Livestock Management: Phase III	Stewardship Partners	In Phase III at Wallace Acres, Stewardship Partners will work to restore 800 linear feet of riparian habitat on the mainstem Snoqualmie River. The site will be planted at no less than 35 ft. in width so a total area of 28,000 square feet (.64 acres) will be restored and another 800 linear feet of livestock exclusion fence will be installed.	\$5,000	\$29,586	\$ 29,586
7	Fall City Farms Floodplain Habitat Enhancement	Snoqualmie Tribe	The Snoqualmie Indian Tribe will work collaboratively with a private agricultural landowner and the local community to restore 14 acres of floodplain riparian habitat that is crucial for ESA listed Chinook salmon and other fish & wildlife species along the important Fall City rearing reach.	\$39,417	\$81,157	\$ 81,157
7	Baring North Acquisition – South Fork Skykomish River	Forterra	Forterra proposes to acquire 26 acres of high-quality habitat along the South Fork of the Skykomish River near the community of Baring, including riparian, wetland, off-channel, and upland forest habitat to conserve in perpetuity. The Baring North's high-quality forested floodplain habitat, 1,350ft of river frontage, and 1,000ft of tributary stream with wetlands, supports several species of salmonids including Chinook, coho, chum and pink salmon, as well as steelhead and bull trout.	\$477,294	\$100,000	\$ 75,000
7	South Fork Skykomish Riparian Restoration	King County Noxious Weeds	The King County Noxious Weed Control Program in partnership with the Snoqualmie Tribe will continue to reduce the impacts of invasive knotweed in the riparian ecosystem within the King County portion of the Skykomish River. This project will focus on the control of remaining knotweed infestations and the replanting of native riparian species where infestations have been substantially reduced.	\$38,031	\$70,000	\$ 70,000
7	Snoqualmie Valley Watershed Education & Stewardship	NatureVision	Nature Vision will provide custom education programs, including field trips and small scale restoration projects to 13 classes from schools in the Riverview and Snoqualmie Valley School Districts. Classes of 3rd-12th grade students complete an education program and action project to improve salmon habitat and water quality.	\$5,745	\$17,354	\$ 17,354

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
7	North Fork Cherry Creek – 300 th Ave NE Culvert Replacements Ph. II	Wild Fish Conservancy	Wild Fish Conservancy will design and permit two culverts on the North Fork of Cherry Creek to improve fish passage and flooding issues.	\$126,500	\$135,627	\$ 99,333
7	Using Nuisance Beavers to Restore Salmon Habitat	Tulalip Tribes	The Tulalip Beaver Project relocates low land nuisance beavers to headwater streams in the Snoqualmie Watershed where their work as ecosystem engineers can improve and enhance hydrologic benefit to salmon. Tulalip Tribes will trap nuisance beavers in the King County lowlands and relocate them to Forest Service land in the South Fork Skykomish and Snoqualmie River Basins.	\$63,634	\$64,512	\$ 64,512
7	Meadowbrook Farm Forest Preserve Enhancement	Mountains to Sound Greenway Trust	The Mountains to Sound Greenway Trust and the City of North Bend will restore nearly 32 acres of riparian forest in the Meadowbrook Farm Forest Preserve, adjacent to the South Fork of the Snoqualmie River. The project will entail removal of holly, blackberry and ivy, and the installation of thousands of native conifers.	\$11,000	\$60,572	\$ 57,015
7	Cherry Creek Phase II/III Permits	Sound Salmon Solutions	Sound Salmon Solutions is requesting funds for the permits needed to construct the Cherry Creek Phase II and III project.		\$50,000	\$0
7	Middle Fork Snoqualmie Temperature Study	King County Science	The King County Science and Technical Section will collect data to better understand the elevated summer temperatures of the Middle Fork of the Snoqualmie. This will be achieved by aggregating existing stream temperature data from the basin and collecting stream temperature data at 20 locations in the basin during the summer of 2018 which will be compared to a GIS analysis of riparian tree height and incoming solar radiation		\$25,000	\$0
7	Tolt River Survey and Riparian Restoration Phase II	Sound Salmon Solutions	Sound Salmon Solutions proposes to locate and control invasive butterfly bush and knotweed species throughout the mainstem, north and south forks of the Tolt River. A minimum of 8-acres of invasive species will be controlled and 3-acres of riparian planting will be achieved to improve water quality and provide sustainable habitat for salmon in the near and long-term. This follows the Phase I effort which controlled butterfly bush on 19 river miles of the Tolt.River.		\$58,453	\$0

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
7	Snoqualmie Springs Farm	Ducks Unlimited	Snoqualmie Springs Farm is located on the Snoqualmie River immediately south of the confluence with the Tolt. Ducks Unlimited proposes to design, plan, and prepare permits to better connect five acres of wetland to the river and plant 19 acres of riparian forest.		\$120,933	\$0
7	Snoqualmie Riverbank Habitat Restoration	City of Duvall	The City of Duvall has identified a portion of McCormick Park along the Snoqualmie River that has significantly eroded over the past ten (10) years impacting riparian and wildlife habitat. The project will identify the limits of work and support a planning effort that would include a feasibility study and analysis of the site, soils and impacts, with a conceptual design for future improvements.		\$30,000	\$0
7	Snoqualmie Knotweed	King County Noxious Weeds	The King County Noxious Weed Control Program, in partnership with the Snoqualmie Tribe, will continue to reduce the impacts of invasive knotweed in the riparian ecosystem within the Upper Snoqualmie River. This project will focus on the control of remaining knotweed infestations and the replanting of native riparian species where infestations have been substantially reduced.		\$98,658	\$0
7	Three Forks Natural Area	Mountains to Sound Greenway Trust	The Three Forks Natural Area – Meadowbrook Slough Restoration Phase 5 is the final phase of a multi-year restoration effort at the City-owned Three Forks Natural Area, and will expand upon work completed in partnership with the Mountains to Sound Greenway Trust and others during previous phases. Project work involves significant habitat restoration along the slough, removing and controlling invasive weeds and installing native trees and shrubs. It will under plant and remove invasives in 8 additional acres on-site.		\$60,180	\$0
			WRIA 7 Subtotals <i>*Leveraged Funds total for recommended projects only</i>	\$876,996	\$1,405,361	\$872,286
WRIA 8						

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
8	Bird Island Shoreline Enhancement Ph. 2	Washington Department of Natural Resources	Enhance migratory and rearing habitat for juvenile Chinook salmon by restoring shoreline and upland conditions around Bird Island in south Lake Washington. The project will remove debris from the lake, place sand and gravel to recreate a more natural shoreline profile, install 2 log structures, replant native vegetation, and enhance on-site wetlands.	\$471,000	\$616,247	\$583,142
8	Royal Arch Reach Acquisition – Cedar River	Seattle Public Utilities	Acquire 0.27 acres between River Mile 14.5 to 15.0 in the Royal Arch Reach of the Cedar River for Chinook salmon habitat protection and future floodplain restoration. Almost the entire parcel is within the severe channel migration zone, and the remaining area is within the moderate channel migration zone.	\$82,300	\$362,700	\$362,700
8	Doyle Restoration	King County	Enhance Chinook spawning and rearing habitat along approximately 600 lineal feet of Bear Creek by adding wood to the stream, excavating floodplain side channels, and replanting the riparian zone.	\$254,000	\$50,000	\$25,000
8	Issaquah Creek Instream Restoration at Lake Sammamish State Park: Phase 2 Design	Mountains to Sound Greenway Trust	Build on conceptual designs funded by a previous CWM grant to initiate the next phase of design and permit consultation for instream restoration along the 6,600 foot reach of Issaquah Creek within Lake Sammamish State Park.	\$15,000	\$165,790	\$165,790
8	Bear Creek Large Woody Debris at Keller Farm	City of Redmond	Increase instream habitat for salmon spawning, rearing, and migration by installing large woody debris in approximately 4,000 feet of Bear Creek adjacent to the future Keller Wetland Mitigation Bank.	\$101,898	\$679,325	\$340,000
8	Middle Bear Creek Natural Area Additions	King County	Acquire three parcels totaling 26.2 acres along Bear Creek. The parcels include approximately 750 lineal feet of Bear Creek, and the property extends across to both banks of Bear Creek.	\$0	\$500,000	\$200,000
8	Laughing Jacobs Creek Restoration - Reroute Feasibility and Alternatives Analysis	Trout Unlimited	Evaluate feasibility and restoration alternatives on lower Laughing Jacobs Creek and its confluence delta with the Lake Sammamish lakeshore. Results of this work will be used as a basis for future restoration of juvenile Chinook rearing habitat.	\$45,000	\$201,062	\$100,000

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
8	Cedar River Stewardship in Action: Renton	Forterra	In partnership with the City of Renton, control knotweed from River Mile 5.5 to RM 0, restore native plant communities, and develop community outreach tools and educational opportunities for streamside landowners and the recreational community.	\$37,000	\$71,220	\$71,220
8	Bear Creek Watershed Riparian Improvement	Forterra	Build on outreach and knotweed survey efforts along Bear Creek by expanding survey to tributaries, initiating knotweed treatment on public and private lands, and restoring native plant communities to benefit Chinook salmon and other instream resources. The project will continue to develop community outreach tools focused on stream stewardship.	\$24,000	\$124,095	\$81,312
8	Holder Creek Riparian Restoration	King County	Construct a livestock exclusion fence along the left bank of Holder Creek and restore a 150 foot variable buffer to enhance approximately 6 acres of riparian habitat. The buffer width was developed in partnership with the King County Agriculture Program.	\$0	\$165,000	\$57,000
8	Lake Washington Juvenile Salmonid Monitoring 2018	Washington Department of Fish and Wildlife	Monitor Chinook salmon in WRIA 8 by trapping and tagging juvenile fish. The resulting abundance, productivity, survival, and life-history diversity data will be used to evaluate the success of and adaptively manage the WRIA 8 Salmon Recovery Plan.	\$0	\$244,900	\$244,900
8	2018 Adult Chinook (Fish In) Monitoring	King County	Collect escapement data for spawning adult Chinook in WRIA 8. The project is part an ongoing, annual, inter-agency effort to support long-term monitoring of the effectiveness of the WRIA 8 Salmon Recovery Plan.	\$2,160	\$55,072	\$55,072
8	2018 WRIA 8 Beach Naturalists Program	Seattle Aquarium	Beach Naturalists is a public education and outreach program designed to engage Puget Sound citizens in learning how to protect and conserve the nearshore environment. Beach Naturalists motivate behavioral change by raising public understanding about the value and fragility of the intertidal ecosystem, salmon, the nearshore and Puget Sound.	\$122,265	\$13,200	\$13,200
8	Cedar River Salmon Journey	Seattle Aquarium	The Cedar River Salmon Journey program works to support and promote salmon recovery in WRIA8. Since 1998, the Cedar River Salmon Journey program has educated over 118,846 Puget Sound residents about Cedar River salmon, watershed health and the everyday actions we can all take to help salmon.	\$61,140	\$38,500	\$38,500

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
8	Mountains to Sound Greenway Forests and Fins Education Project	Mountains to Sound Greenway Trust	Using the Mountains to Sound Greenway as a living classroom, this project teaches inquiry-based science curricula to 4th – 12th grade students. Students learn the actions they can take to improve the health of ecosystems through classroom and field learning.	\$13,500	\$16,000	\$16,000
8	Salmon Heroes: Improving Stewardship Behaviors through Field Studies	Environmental Science Center	Teach elementary and middle school students about salmon habitat and recovery efforts during a 3-part, 5-hour field study program. Students visit the Cedar River to learn about limiting factors to salmon survival and collect water quality data to be analyzed in the classroom.	\$27,898	\$10,000	\$10,000
8	Salmon-Safe Accelerator for the Sammamish Valley	Stewardship Partners	Provide training for developers and businesses on low impact development and construction and land management methods that target zero sediment runoff and protect salmon habitat. The trainings seek to accelerate the adoption of Salmon-Safe practices in the Sammamish Valley.	\$22,750	\$15,509	\$15,509
8	Wayne Sammamish Community Project	City of Bothell/Forterra	Acquire and permanently protect up to 89 acres of urban property currently being managed as a golf course. The property encompasses 4,800 feet of riverbank and 29 acres of floodplain habitat and provides valuable opportunities for future salmon habitat restoration.		\$1,000,000	\$0
8	Bear Creek Watershed Habitat Restoration Feasibility and Conceptual Design Development	Mid-Sound Fisheries Enhancement Group	Engage landowners along Bear Creek and Cottage Lake Creek to identify locations for future instream habitat restoration projects. Once interested landowners are identified, develop conceptual designs for future projects targeting increased stream complexity for juvenile Chinook salmon.		\$60,658	\$0
8	Redhook Brewery Sammamish River Riparian Restoration	Mid-Sound Fisheries Enhancement Group	Design and implement a project to remove invasive plants and revegetate 800 feet along the Sammamish River to enhance riparian conditions and functions.		\$71,913	\$0
			WRIA 8 Subtotals <i>*Leveraged Funds total for recommended projects only</i>	\$1,279,911	\$4,461,191	\$2,379,345
WRIA 9						
9	Downey Farmstead Side Channel Restoration	City of Kent	The City of Kent will construct nearly 2,000 linear feet of side channel to the Green River to provide rearing and refuge habitat for threatened Chinook and other salmon species. The project will also	\$937,003	\$882,799	\$882,799

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
			provide 130-acre feet of flood storage to reduce flooding in nearby urban and agricultural areas.			
9	Downey Farmstead – Frager Road Utility Relocation	City of Kent	In order to create space for the future full-build out of the Downey Farmstead project and maximize shading and habitat creation, the current utilities that serve homes along Frager Road need to be moved out of the way. This grant request will partially fund utility relocation.	\$80,000	\$120,000	\$120,000
9	Lower Green River Acquisitions 2017	King County WLRD	This funding will be used towards acquisition and permanent protection of a parcel (or parcels) on strategically important properties to allow future restoration and planting of tall native shade trees. This acquisition is the first step in order to improve water quality and habitat conditions for salmonids and other species.	\$500,000	\$250,000	\$250,000
9	Changing Behaviors: Improving Watershed Health and Salmon Habitat through Education and Outreach	Environmental Science Center	This funding will increase public awareness of watershed health and salmon habitat protection with curriculum, field studies, educational outreach, and community events. This project will encourage people in WRIA 9 to make positive behavior changes to improve the water quality of Puget Sound and protect salmon habitat.	\$26,000	\$30,000	\$30,000
9	2018 WRIA 9 Beach Naturalist Program	Seattle Aquarium	The Beach Naturalist program is a public education and outreach program that engages local citizen volunteers to teach the public about the importance of the nearshore environment. Beach Naturalists motivate behavioral change by raising public understanding about the value and fragility of the intertidal ecosystem, salmon, the nearshore and Puget Sound.	\$114,465	\$21,000	\$21,000
9	WRIA 9 Capital Projects Implementation 2017	WRIA 9	Funding will support implementation of projects and programs in the Green/Duwamish and Central Puget Sound watershed, including development of project funding strategies, technical support for project development and grants, and solicitation of new projects. This function supports the resources and tools needed for capital improvement implementation.	\$60,000	\$136,960	\$136,960

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
9	Juvenile Chinook Use of Lower Green River Tributaries and Off-Channel Habitats	King County WLRD	The intent of this project is to examine the use of the lower reaches of non-natal tributary habitats by juvenile Chinook in the Lower Green River. This will help us understand the value of these habitats for rearing and as flood refuge to help prioritize future restoration projects. In addition, this project will incorporate mainstem river and other natal off-channel habitats, which are currently the focus of the recovery plan, to provide a more complete picture of their value compared to non-natal tributary habitats.	\$27,000	\$30,000	\$30,000
9	Green River smolt monitoring and otolith microchemistry analysis	Washington Department of Fish and Wildlife	Funds are requested to operate a smolt trap capturing downstream migrating juvenile salmon. This ongoing monitoring project has provided essential abundance, productivity and life history diversity data on salmonids, including ESA-listed Chinook salmon and steelhead trout in the Green River since 2000. In addition, up to 150 adult Chinook otoliths will be collected and analyzed for life history analysis.	\$0	\$90,000	\$90,000
9	WRIA 9 Habitat Plan Technical Assistance and Outreach 2017	WRIA 9	This grant will continue to fund staff from the King County Science Section and consultants to support completion of the WRIA 9 Salmon Habitat Plan update. King County science staff have a long history with WRIA 9, and their help is critical for supporting plan implementation and a science-based update. Outreach and plan management support will be necessary to inform the public and hold public meetings to gather input during the Salmon Habitat Plan update.	\$257,000	\$88,000	\$88,000
WRIA 9 Subtotals				\$2,001,468	\$1,648,759	\$1,648,759
WRIA 10						
10	Middle Boise Creek Restoration – VanWieringen Construction	King County WLRD	Fund a portion of the construction cost of the Middle Boise Creek riparian restoration project (Van Wieringen) to improve salmon habitat. Design is almost complete.	\$100,000	\$150,000	\$113,050
10	White River Juvenile Salmon Production Assessment	Puyallup Tribe	This project will monitor the outmigration of juvenile salmon on the White River to establish abundance estimates, run timing and biological characteristics of ESA listed salmon species, Chinook and Steelhead. This is a continuation of work done under CWM grants	\$7,500	\$159,305	\$113,050

ATTACHMENT A: 2017 COOPERATIVE WATERSHED MANAGEMENT GRANT RECOMMENDATIONS

WRIA	Project Name	Project Sponsor	Project Description	Secured Leveraged Funds	Funding Requested	Funding Recommended by WRIA
			from 2015 and 2016.			
WRIA 10 Subtotals				\$107,500	\$309,305	\$226,100
ALL CWM TOTALS				\$4,265,875	\$7,824,616	\$5,126,490

REVISED STAFF REPORT

Agenda Item:	6	Name:	Michelle Clark
Proposed No.:	FCD Resolution No 2017-04	Date:	August 21, 2017

FCD Resolution No 2017-04.1: A Resolution relating to the operations and finances of the King County Flood Control District; authorizing the expenditure of District funds for the projects and activities in Water Resource Inventory Areas 7 (Snoqualmie Watershed portion), 8, 9 and 10 (King County portion).

The Water Resource Inventory Areas Grant program is in its fifth year. This year the Flood Control District ("District") provided \$4,393,506 in funding for projects and activities in Water Resource Inventory Areas 7 (Snoqualmie Watershed portion), 8, 9 and 10 (King County portion).

The WRIA staff and committee members reviewed the projects for eligibility and visited project sites for a technical review. Each WRIA submitted it's proposal for projects to receive funding of water quality and water resources and habitat restoration projects and activities as follows:

1. WRIA 7 (Snoqualmie Watershed portion): \$872,286;
2. WRIA 8: \$1,646,361;
3. WRIA 9: \$1,648,759; and
4. WRIA 10 (King County portion): \$226,100.

The District Executive Committee unanimously recommended approval of FCD Resolution No 2017-04 to the District Board of Supervisors.

ATTACHMENTS

1. Proposed FCD Resolution No. 2017-04.1
2. WRIA staff PowerPoint presentation

2017 Cooperative Watershed Management Grant Program (WRIA Grants)



King County Flood Control District Board of Supervisors
August 21, 2017



KC Flood Control District



August 21, 2017



Puyallup/White
River Watershed



King County Flood Control District WRIA Grant Allocation

**2017 WRIA Grant Funding
\$4.4 M**

**Snoqualmie Forum
(WRIA 7)
\$871 K**

**Lake Washington/
Cedar/Sammamish
(WRIA 8)
\$1.65 M**

**Green/Duwamish
(WRIA 9)
\$1.65 M**

**Puyallup/White
(WRIA 10)
\$226 K**



**Puyallup/White
River Watershed**

Project Summary

Project Type	# of Projects	Percentage of Total Grant Request
Restoration & Protection	23	78%
Monitoring	7	12%
Education & Outreach	8	3%
Project Assistance & Coordination	3	7%
TOTAL	41	100%

Funding Summary

▶ Total Funding Requested	\$7,824,616
▶ Total Funding Available	\$5,126,490*
▶ Funding Shortfall	<i>\$2,698,126</i>
▶ Secured Leverage Funds	\$4,265,875

* Total includes returned funds from past grants

WRIA 7 Capital Projects:



- ▶ **North Fork Cherry Creek**
 - **\$99,033 – Wild Fish Conservancy**
- ▶ **Nuisance Beaver - Restoring Salmon Habitat and Helping Farmers**
 - **\$64,512 – Tulalip Tribes**

North Fork Cherry Creek



KC Flood Control District

Nuisance Beaver



August 21, 2017

WRIA 7 Capital Projects:

- ▶ **Meadowbrook Farm Forest**
 - **\$57,015 – Mountains to Sound Greenway Trust**
- ▶ **Griffin Creek Riparian Planting**
 - **\$99,898 – Sound Salmon Solutions**



KC Flood Control District

August 21, 2017



WRIA 7 Education and Monitoring



- ▶ **Snoqualmie Valley Watershed Education**
 - \$17,354 – NatureVision
- ▶ **Upper Carlson Fish Monitoring**
 - \$28,431 – King County WLRD



KC Flood Control District



August 21, 2017

WRIA 8 Capital Projects:

Habitat
Protection &
Restoration



► Bird Island Shoreline Restoration

- \$583,142 – Washington Dept. of Natural Resources



KC Flood Control District

► Bear Creek Large Wood Placement at Keller Farm

- \$340,000 – City of Redmond



August 21, 2017

WRIA 8 Capital Projects:

Riparian Restoration & Stewardship



- ▶ **Cedar River Stewardship-in-Action: Renton**
 - **\$71,220 – Forterra**
- ▶ **Bear Creek Watershed Riparian Improvement**
 - **\$81,312 – Forterra**
- ▶ **Holder Creek Riparian Restoration**
 - **\$57,000 – King County WLRD**

WRIA 8 Outreach & Education and Monitoring



- ▶ **Outreach & Education**
 - **Five proposals - \$93,209**
- ▶ **Monitoring**
 - **Two proposals - \$299,972**
- ▶ **Continue efforts to gather essential data and to educate our citizens about salmon habitat needs**



WRIA 9 Capital Projects:

Large Capital Restoration

- ▶ **Downey Farmstead – Side Channel Restoration**

- **\$882,799 - City of Kent**

- ▶ **Frager Road Utility Relocation**

- **\$120,000 – City of Kent**

- ▶ **Lower Green River Acquisition**

- **\$250,000 – King County WLRD**



WRIA 9 Outreach, Education, and Technical Assistance

- ▶ **Changing Behaviors: Improving Watershed Health and Salmon Habitat through Education and Outreach**
 - **\$30,000 – Environmental Science Center**
- ▶ **Beach Naturalist Program**
 - **\$21,000 – Seattle Aquarium**



WRIA 9 Monitoring

- ▶ **Juvenile Chinook Use of Lower Green Tributaries**
 - **\$30,000 – King County WLRD**
- ▶ **Green River Smolt Monitoring and Otolith Analysis**
 - **\$90,000 – Washington Department of Fish & Wildlife**

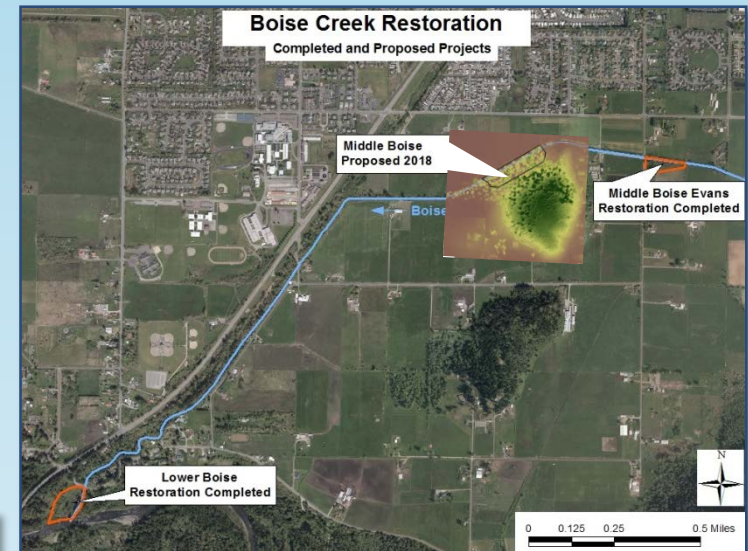
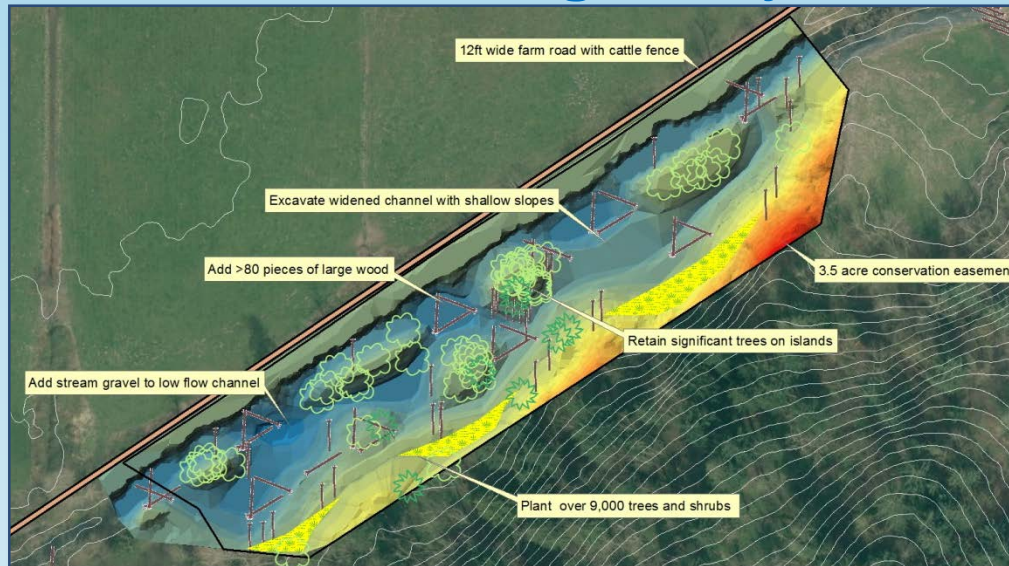


WRIA 10 Capital Projects

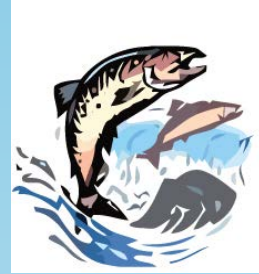


Puyallup/White
River Watershed

- **Middle Boise Creek (Van Wieringen) Construction**
 - **\$113,050 – King County WLRD**



WRIA 10 Monitoring



Puyallup/White
River Watershed

► White River Juvenile Salmon Production

- \$113,050 – Puyallup Tribe of Indians



Andrew Berger, Puyallup Tribe
KC Flood Control District



August 21, 2017

Making Projects Successful

- ▶ Cornerstone grant program
- ▶ Total grant leveraging: \$4,265,875
- ▶ Funding for complex capital projects
- ▶ Building partnerships



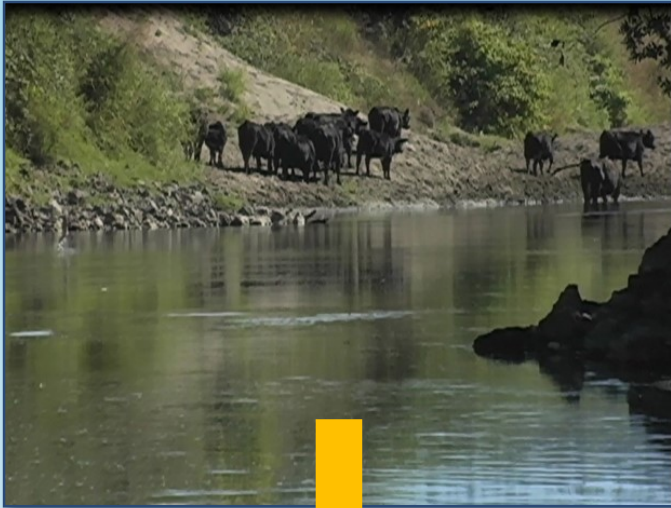
KC Flood Control District

August 21, 2017



Example CWM Projects in Action

WRIA 7: Aronica Farm



KC Flood Control District

WRIA 8: Sammamish River Side Channel Restoration



August 21, 2017

Example CWM Projects in Action



WRIA 10: Greenwater River Restoration completed in 2014



WRIA 9: Duwamish Gardens Completed in April 2017

Questions?



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

August 17, 2017

FCD Resolution

Proposed No. FCD2017-05.1

Sponsors

1 A RESOLUTION relating to the operations and finances of
2 the King County Flood Control Zone District; authorizing
3 the expenditure of District funds for projects and activities
4 in accordance with the Flood Reduction Grants.

5 WHEREAS, the King County Flood Control Zone District ("District") adopts an
6 annual work program, budget, operating budget for King County, capital budget and six-
7 year capital improvement program pursuant to chapter 86.15 RCW; and

8 WHEREAS, in 2014, the District created the Flood Reduction Grant fund to
9 provide grant funding for projects with flood reduction benefits, including, but not
10 limited to, surface water overflows, near shore flooding, lake flooding due to outflow
11 blockage, or the clearance of clogged agricultural drainage systems, and

12 WHEREAS, the District desires to continue funding projects in the Flood
13 Reduction Grant fund; and

14 WHEREAS, in establishing the District's 2017 budget, the District provided
15 \$3,391,700 in funding in the Flood Reduction Grant Fund; and

16 WHEREAS, a selection committee composed of the director of the water and land
17 resources division of the King County department of natural resources and parks, the
18 District's executive director and a former Newcastle councilmember reviewed the 2017
19 applications for grant funds and made a recommendation regarding them to the District;

20 WHEREAS, the District's executive committee reviewed the selection
21 committee's recommendations;

22 WHEREAS, based on the recommendation of the selection committee, as
23 considered and modified by the District's executive committee, the board of supervisors
24 desires to approve 2017 grant fund applications and projects; now, therefore

25 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING
26 COUNTY FLOOD CONTROL ZONE DISTRICT:

27

28 SECTION 1. The board of supervisors approves the 2017 King County
29 Flood Reduction Fund Grant Projects described on Attachment A to this
30 resolution.
31

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON

Reagan Dunn, Chair

ATTEST:

Melani Pedroza, Clerk of the Board

Attachments: A. 2017 Flood Reduction Grant Recommendations

ATTACHMENT A: 2017 FLOOD REDUCTION GRANT RECOMMENDATIONS - JULY 13, 2017

APPLICANT	PROJECT NAME	DESCRIPTION	REQUESTED AMOUNT	RECOMMENDED AWARD AMOUNT	KC COUNCIL DISTRICT
Auburn, City of	<i>37th St NW Flooding Elimination</i>	The project will increase capacity of a drainage channel culvert located at the Puget Sound Energy Christopher Substation access driveway by replacing a 12-inch culvert with a large box culvert. The project will eliminate a long-term flooding problem on 37 th St NW and the Inter-Urban Trail, as well as on the PSE property and driveway. This will end years of road closures during flooding events, and ensure safe consistent access to local businesses, through-traffic, the non-motorized trail, and the electrical substation.	\$210,000	\$210,000	7
Delridge Neighborhoods Development Association	<i>Wetlands Restoration and Stewardship</i>	The project will address stormwater road flooding and contamination of the Delridge Wetland by improving culverts and roadside ditches and treating stormwater flows prior to entering the wetland. The treatment will be achieved by installing a biofiltration swale and working with the City of Seattle to maintain roadside ditches.	\$60,000	\$60,000	8
Federal Way, City of	<i>Lakota Park Stormwater Facility Repair</i>	The project will rebuild and restore portions of the berm that forms a boundary between Lakota Park and Lakota Wetlands as well as repair approximately 470 linear feet of an 18-inch pipe downstream of the control structure that regulates flow from the wetlands area.	\$250,000	\$250,000	7
Issaquah, City of	<i>East Lake Sammamish Parkway - 56th St. Conveyance Improvements Design</i>	The existing stormwater conveyance in the vicinity of the intersection of East Lake Sammamish Parkway and 56th Street is underperforming and prone to street flooding during both high-intensity and long-duration storm events. This system is also difficult to maintain. This project will evaluate the existing conditions, identify alternatives and options for improvement, and complete preliminary design of the City-preferred alternative.	\$200,000	\$70,000*	3
King Conservation District	<i>KCD Agricultural Drainage Project Phase 3</i>	This project builds on three years of KC FCD grants to develop and implement an expanded set of services to facilitate increased farmer participation in King County's Agricultural Drainage Assistance Program (ADAP). Key elements of our program to date have included farmer outreach to over 160 farmers (including targeted outreach to non-English speaking farmers), cost share assistance to 75% totaling \$145,000 to farmers for dredging costs, and project monitoring. We propose an extension of funding for KCD's partnering role with King County to continue and increase support for ADAP projects and establish a long-term approach to funding KCD's support for farmer participation in agricultural drainage projects.	\$215,298	\$215,298	3, 7, 9

ATTACHMENT A: 2017 FLOOD REDUCTION GRANT RECOMMENDATIONS - JULY 13, 2017

APPLICANT	PROJECT NAME	DESCRIPTION	REQUESTED AMOUNT	RECOMMENDED AWARD AMOUNT	KC COUNCIL DISTRICT
King County Water & Land Resources	<i>Alluvial Fan Demonstration Projects - Duvall</i>	This project will provide design and permitting of a sediment management facility on a developed alluvial fan. A demonstration project ordinance has been adopted by the King County Council for the project and approved by the WA State Dept. of Ecology. A property has been identified to construct a fish passable sediment pond. This work will also include assessment of lessons learned from a similar demonstration project previously funded by a 2014 Flood Reduction Grant.	\$204,000	\$20,000*	3
Lake Forest Park	<i>Lyon Creek Flood Reduction - Phase II SR 104</i>	In 1997, a private culvert beneath a gas station collapsed during a flood, with the debris and sediment falling into Lyon Creek. The collapsed culvert remains in the stream channel and is surrounded by undersized public culverts in the immediate area that create a flood hazard that threatens a state highway, local businesses and residences. The project is to develop engineering plans and obtain permits necessary to remove the collapsed culvert and debris, replace three undersized culverts (SR 104, NE 185 th St., 35 th Ave NE) in the immediate area, and restore 700 feet of stream channel.	\$400,000	\$400,000	1
Newport Villa Townhomes Owners Assoc.	<i>Flooding Remediation Project Final Design</i>	Final engineering design of preferred alternative, permit submittal and construction estimates.	\$155,000	\$155,000	9
North Bend, City of	<i>State Route 202 Culvert Replacement</i>	This project will replace the two existing culverts at SR202 with a 9.5' x 4' box culvert. The replacement of the existing culverts is needed because they do not have flow capacity to pass the 25-year stormwater event.	\$400,000	\$0 ^	3
Pacific	<i>Butte Avenue Flood Mitigation - Pump Station</i>	This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.	\$470,000	\$0 ^	7
Redmond, City of	<i>Overlake Village Station Infiltration Vault</i>	Bellevue's Valley Creek has been subject to chronic flooding that has impacted arterials. The 4.4 acre-foot Overlake Station Infiltration Vault is a high priority project in Redmond's plan to fully retrofit the Overlake urban center with flow control that will reduce or eliminate flooding downstream. The grant will pay for a portion of the construction.	\$400,000	\$400,000	6

ATTACHMENT A: 2017 FLOOD REDUCTION GRANT RECOMMENDATIONS - JULY 13, 2017

APPLICANT	PROJECT NAME	DESCRIPTION	REQUESTED AMOUNT	RECOMMENDED AWARD AMOUNT	KC COUNCIL DISTRICT
Renton, City of	<i>Madsen Creek Improvement Project Phase 1</i>	The goal of this project is to reduce flooding from Madsen Creek to residential property along 149th Ave SE, and to the Wonderland Estates Manufactured Home Park property on the south side of SR-169. The project will be performed in phases starting with hydrologic and hydraulic studies of the Madsen Creek drainage basin and preliminary design of flood reduction improvements.	\$472,000	\$472,000	9
River Park Townhomes HOA	<i>Improvement of Bioswale System and Slope Stabilization</i>	Correct damage caused by an inadequate stormwater/bioswale system which caused localized flooding and slope instability. Re-establish original hill slope and slope stability through construction of low retaining wall.	\$18,000	\$18,000	1
Seattle, City of	<i>Puget Way Culvert Replacement Phase 1</i>	Replace an aging and undersized creek culvert under Puget Way SW. The project is expected to reduce flooding of roadways and private property. The grant will cover design through final plans, permitting and bid advertisement.	\$280,000	\$280,000	8
Shoreline, City of	<i>Hidden Lake Dam Removal</i>	This project will provide 60% and final design and permitting to remove Hidden Lake dam and spillway, restore this section of Boeing Creek and replace culverts under NW Innis Arden Way. The eventual construction of this work (not covered under this grant) would safely convey creek flood flows and manage sediment through a steep urban watershed. If no action is taken prior to sediment in-filling the lake (expected by 2020-2025), risk of catastrophic flooding will increase, threatening public safety, critical public infrastructure, and private residences.	\$300,000	\$300,000	1
Skykomish, Town of	<i>Old Cascade Highway Drainage Improvements</i>	The proposed 24-inch stormwater pipe and outfall structure will be installed in primarily unused Town of Skykomish ROW to alleviate flooding of the highway, homes and businesses. Approximately 350 feet of the pipeline will cross property owned and managed by the US Forest Service in unincorporated King County, south of the town limits.	\$147,070	\$147,070	3
Snoqualmie, City of	<i>Phase 1 Northern Street Culvert Replacement Design</i>	This project will provide site assessment and pre-design to replace an undersized and failed culvert and raise a roadway section to remove a 6-foot dip in the roadway. Project design will help alleviate roadway section flooding as this is one of the first city roadways to become impassable during frequent flood events.	\$150,000	\$25,000*	3

ATTACHMENT A: 2017 FLOOD REDUCTION GRANT RECOMMENDATIONS - JULY 13, 2017

APPLICANT	PROJECT NAME	DESCRIPTION	REQUESTED AMOUNT	RECOMMENDED AWARD AMOUNT	KC COUNCIL DISTRICT
Snoqualmie Valley Watershed Improvement District	<i>SVWID Drainage Water Management</i>	The goal of SVWID's Drainage Water Management (DWM) project is to improve agricultural drainage and downstream water quality by replacing or retrofitting a minimum of 80-acres of previously free draining, subsurface tile systems with water control structures. DWM uses water control structures to impact the height of the water table and regulate the amount of drainage water leaving a field. The benefits of DWM projects to the SVWID and the greater community include increasing the economic resiliency of agriculture in the Snoqualmie Valley and reducing water quality impacts from upslope stormwater and agricultural drainage flowing through free draining subsurface tile systems.	\$196,120	\$196,120	3
Tukwila, City of	<i>S. 180th St. Bridge Flood Wall Extension</i>	The project will increase the height of a flood wall to provide approximately 30" of additional flood protection.	\$65,378	\$0 ^	5
Wild Fish Conservancy	<i>300th Street Culvert Replacement Phase III</i>	Wild Fish Conservancy is requesting funding to develop final designs and obtain permits for replacement of two culverts crossing 300 th Ave NE.	\$104,600	\$104,600	3
TOTAL			\$4,697,466	\$3,323,088	
Available Funds for 2017:				\$3,391,700	
Surplus:				\$68,612	

Revised STAFF REPORT

Agenda Item:	7	Name:	Michelle Clark
Proposed No.:	FCD Resolution No 2017-05	Date:	August 21, 2017

SUBJECT

FCD Resolution No 2017-05: A Resolution relating to the operations and finances of the King County Flood Control District; authorizing the expenditure of District funds for the projects and activities in accordance with the Flood Reduction Grants.

The Flood Reduction Grant program is in its fourth year. This year the King County Flood Control District ("District") received 20 grant requests totaling \$4,697,466. Available funding in 2017 is \$3,391,700. The review committee recommends awarding Flood Reduction Grants totaling \$3,323,088.

Grant availability was announced this spring through press releases, posting to the District website, and outreach by Supervisor and their staff.

Applicants included 1 neighborhood association, 1 town, 12 cities, 2 homeowners associations, watershed improvement district, the King Conservation District, King County Water and Lands Resources Division, and 1 non-profits.

King County Water and Land Resources grants staff reviewed the projects for eligibility and visited project sites for a technical review. A review panel of Josh Baldi, Director of King County Water and Land Resources Division, Lisa Jensen, former Newcastle councilmember, and Michelle Clark, reviewed the grant requests and met in person to make recommendations.

The review panel recommends full funding for 14 projects, the removal of three projects from the grant list and adding these projects to the District's 6-year CIP(Pacific, Tukwila, and North Bend projects) and partial funding for three other projects Issaquah, the Wild Fish Conservancy, and King County Water and Land Resources Division). The three projects recommended for partial funding would receive money for project design and project management.

The District Executive Committee unanimously recommended approval of FCD Resolution No 2017-05.

ATTACHMENTS

1. Proposed FCD Resolution No. 2017-05